

**THE IDENTIFICATION  
AND DISTRIBUTION  
OF  
NEW WORLD ARMY ANTS  
(Dorylinae: Formicidae)**



Julian F. Watkins II



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Chairman, Markham Press Fund  
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## INTRODUCTION AND ACKNOWLEDGMENTS

This publication includes a list of the recognized species and subspecies, known castes, keys (with figures) to genera and species (workers and males), distribution maps and lists to species and subspecies for the New World army ants (Dorylinae). The keys are based on Borgmeier's 1955 keys which have been translated from German to English, extensively revised, and seven new species added.

Subspecies are not separated in the present keys, but are tentatively designated on the maps. As additional specimens from intermediate localities are accumulated, the distinction of many previously recognized subspecies (and some species) becomes more difficult. Characteristics of most of the recognized subspecies are given in Borgmeier (1955).

In several cases, a species is included twice in a key and can be identified by two different routes. This is done for species that vary in a particular characteristic used, or when a characteristic may be difficult to interpret. After a specimen is keyed, the locality should be checked on the appropriate map. The map number is enclosed in parentheses following the name of each species in the keys. Undoubtedly, many new localities will be discovered, especially for those species which presently are known from only a few localities.

The keys to workers are designed to identify soldiers, major and media workers. Minor workers usually lack sufficiently well developed characteristics for adequate separation.

Males exhibit fewer intraspecific variations than do workers and can often be more positively identified. The shapes of the male genitalia (stipites, volsellae, sagittae) are used extensively in these keys. Although extraction of the genitalia often damages the tips of the gasters and is time consuming, the use of these characters often results in a more positive identification. Although some pairs of closely related species with more or less identical genitalia have previously been described, I suspect that in most cases these pairs are at most only subspecies.

Keys to queens have been omitted in this paper as queens are known for only 32 of the 147 species and are not commonly collected. When collected, queens should always be preserved in the same vial with a sample of workers or pinned on the same pin with a major worker from the same colony. Doryline queens should not generally be collected as their removal destroys the colonies and may result in the elimination of some species from restricted areas. My observations of *Neivamyrmex nigrescens* indicate that less than one of every ten colonies produces new reproductives each year, and these reproductives from each colony form only one or two new colonies.

The effectiveness of these keys and maps can be increased by using them in conjunction with the descriptions and more complete figures in Borgmeier (1955). This publication can be obtained from "Editora Vozes Ltda., c/o D. Lucia, C. Postal 23, Petropolis, R. J., Brazil" (\$15.00 U.S.).

The distribution maps and lists include data from the following sources. *Publications:* Borgmeier (1955), Cole (1966), Gotwald (1971), Hym. Amer. N. Mex. (1951, 1958, 1967), Kannoowski (1969), Kempf (1972), LaRivers (1968), Schneirla (1971), Smith (1942), Warren and Rouse (1969), Watkins (1972), Wheeler (1908). *Collections:* Amer. Mus. Natur. Hist. (N.Y.), U.S. Nat. Mus. (Wash., D.C.), Mus. Comp. Zool. (Harvard), Los Angeles Co. Mus. Natur. Hist. (Calif.), Southwest. Res. Sta. (Portal, Ariz.), Univ. of Ark. (Fayetteville), Kans. State Univ. (Manhattan), Tex. A&M (College Station), Acad. Natur. Sci. Philadelphia (Penn.), Borgmeier (Sao Paulo, Brazil), Schneirla (A.M.N.H.), Watkins (Baylor Univ., Waco, Tex.), Baldrige (Shriner Jr. College, Kerrville, Tex.). *Collection lists:* Akre (Wash. State Univ., Pullman, Wash.), Rettenmeyer (Univ. of Connecticut, Storrs), Snelling (L.A.C.M., Calif.).

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**THE IDENTIFICATION AND DISTRIBUTION  
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## LIST OF SPECIES, SUBSPECIES, AUTHORS, DATES AND KNOWN CASTES

(w = worker, q = queen, m = male)

### *Cheliomyrmex*

- C. andicolus* Emery, 1894, w
- C. audax* Santschi, 1921, m
- C. megalonyx* Wheeler, 1921, wm
- C. morosus* (Fr. Smith, 1859), wm
- C. ursinus* (Emery, 1901), m

### *Eciton*

- E. burchelli* s.str. (Westwood, 1842), wm
- E. burchelli cupiens* Santschi, 1923, wm
- E. burchelli foreli* Mayr, 1886, wqm
- E. burchelli parvispinum* Forel, 1899, wqm
- E. burchelli urichi* Forel, 1899, wqm
- E. drepanophorum* Fr. Smith, 1858, w
- E. dulcius* s.str. Forel, 1912, wqm
- E. dulcius crassinode* Borgmeier, 1955, wq
- E. hamatum* (Fabricius, 1781), wqm
- E. jansoni* Forel, 1912, m
- E. lucanoides* s.str. Emery, 1894, w
- E. lucanoides conquistador* Weber, 1949, wq
- E. mexicanum* s.str. Roger, 1863, wqm
- E. mexicanum argentinum* Borgmeier, 1955, wq
- E. mexicanum goianum* Borgmeier, 1955, wqm
- E. mexicanum latidens* Santschi, 1911, m
- E. mexicanum morulum* Santschi, 1923, m
- E. mexicanum panamense* Borgmeier, 1955, wq
- E. quadriglume* (Haliday, 1836), wqm
- E. rapax* Fr. Smith, 1855, wqm
- E. setigaster* Borgmeier, 1953, m
- E. uncinatum* Borgmeier, 1953, m
- E. vagans* s.str. Olivier, 1791, wm
- E. vagans allognathum* Borgmeier, 1955, wm
- E. vagans angustatum* Roger, 1863, wqm
- E. vagans dispar* Borgmeier, 1955, wqm
- E. vagans dubitatum* Emery, 1896, wm
- E. vagans fur* Borgmeier, 1955, wm
- E. vagans mutatum* Borgmeier, 1955, wqm

### *Labidus*

- L. auropubens* (Santschi, 1920), m

*L. coecus* (Latreille, 1802), wqm  
*L. curvipes* (Emery, 1900), m  
*L. mars* (Forel, 1912), w  
*L. nero s.str.* (Santschi, 1930), m  
*L. nero denticulatus* Borgmeier, 1955, m  
*L. praedator s.str.* (Fr. Smith, 1858), wqm  
*L. praedator sedulus* Menozzi, 1926, wm  
*L. spininodis* (Emery, 1890), w  
*L. truncatidens* (Santschi, 1920), m

*Neivamyrmex*

*N. sp. a* Borgmeier, 1955, q  
*N. adnepos* (Wheeler, 1922), w  
*N. agilis* Borgmeier, 1953, w  
*N. alfaroi* (Emery, 1890), wq  
*N. andrei* (Emery, 1901), m  
*N. angulimandibulatus* Watkins, 1974, m  
*N. angustinodis* (Emery, 1888), wq  
*N. antillanus* (Forel, 1897), w  
*N. asper* Borgmeier, 1955, w  
*N. sp. b* Borgmeier, 1955, q  
*N. balzani* (Emery, 1894), w  
*N. baylori* Watkins, 1973, m  
*N. bohlsi* (Emery, 1896), w  
*N. bruchi* (Forel, 1912), w  
*N. bureni* (Enzmann, 1952), m  
*N. californicus* (Mayr, 1870), wq  
*N. carettei* (Forel, 1913), w  
*N. carinifrons* Borgmeier, 1953, m  
*N. carolinensis* (Emery, 1894), wqm  
*N. clavifemur* Borgmeier, 1953, m  
*N. cloosae* (Forel, 1912), m  
*N. compressinodis* Borgmeier, 1953, w  
*N. cornutus* Watkins, 1975, w  
*N. cratensis* Borgmeier, 1953, m  
*N. cristatus* (Andre, 1889), w  
*N. densepunctatus* (Borgmeier, 1933), w  
*N. detectus* Borgmeier, 1953, m  
*N. diabolus* (Forel, 1912), m  
*N. diana* (Forel, 1912), wqm  
*N. digitistipus* Watkins, 1974, m  
*N. diversinodis* (Borgmeier, 1933), w  
*N. d'orbigny* (Shuckard, 1840), wm  
*N. emersoni* (Wheeler, 1921), w  
*N. emeryi* (Santschi, 1921), m

*N. erichsoni* (Westwood, 1842), m  
*N. falciferus* (Emery, 1900), m  
*N. fallax* Borgmeier, 1953, w  
*N. foveolatus* Borgmeier, 1953, m  
*N. fumosus* (Forel, 1913), m  
*N. fuscipennis* (Wheeler, 1908), m  
*N. genalis* Borgmeier, 1953, m  
*N. gibbatus* Borgmeier, 1953, wq  
*N. goeldii* (Forel, 1901), w  
*N. graciellae* (Mann, 1926), w  
*N. gracilis* Borgmeier, 1955, m  
*N. gradualis* Borgmeier, 1953, w  
*N. guerini* (Shuckard, 1840), m  
*N. guyanensis* (Santschi, 1916), m  
*N. halidayi* (Shuckard, 1840), m  
*N. harrisi* (Haldeman, 1852), wqm  
*N. hetschkoi* (Mayr, 1886), wqm  
*N. hopei* (Shuckard, 1840), m  
*N. humilis* (Borgmeier, 1939), wqm  
*N. imbellis* (Emery, 1900), m  
*N. impudens* (Mann, 1922), w  
*N. inca* (Santschi, 1921), m  
*N. iridescens* Borgmeier, 1950, w  
*N. jerrmanni* (Forel, 1901), m  
*N. jheringi* (Forel, 1908), m  
*N. klugi s.str.* (Shuckard, 1840), m  
*N. klugi distans* Borgmeier, 1953, m  
*N. kuertii* (Enzmann, 1952), m  
*N. laevigatus* (Borgmeier, 1948), w  
*N. laticapus* (Emery, 1901), m  
*N. legionis* (Fr. Smith, 1855), wqm  
*N. leonardi* (Wheeler, 1915), w  
*N. leptognathus* (Emery, 1900), m  
*N. lieselae* (Forel, 1913), m  
*N. longiscapus* Borgmeier, 1953, m  
*N. macrodentatus* (Mennozi, 1931), w  
*N. macropterus* Borgmeier, 1953, m  
*N. manni* (Wheeler, 1914), w  
*N. maxillosus* (Emery, 1900), m  
*N. melanocephalus* (Emery, 1895), w  
*N. melsheimeri* (Haldemann, 1852), m  
*N. mexicanus* (Enzmann, 1952), m  
*N. micans* Borgmeier, 1953, m  
*N. microps* Borgmeier, 1955, m  
*N. minensis* (Borgmeier, 1928), wq

*N. minor* (Cresson, 1872), m  
*N. modestus* (Borgmeier, 1933), w  
*N. mojave* (M. R. Smith, 1943), m  
*N. moseri* Watkins, 1968, wq  
*N. nigrescens* (Cresson, 1872), wqm  
*N. nordenskiöldi* (Holmgren, 1908), w  
*N. opacithorax* (Emery, 1894), wqm  
*N. orthonotus* (Borgmeier, 1933), w  
*N. pacificus* Borgmeier, 1955, w  
*N. pauxillus* (Wheeler, 1903), wq  
*N. perplexus* (Borgmeier, 1953), m  
*N. pertyi* (Shuckard, 1840), wqm  
*N. physognathus* (Emery, 1900), m  
*N. pilosus s.str.* (Fr. Smith, 1858), wm  
*N. pilosus beebei* (Wheeler, 1921), wm  
*N. pilosus mandibularis* (M. R. Smith, 1942), m  
*N. pilosus mexicanus* (Fr. Smith, 1859), wqm  
*N. pilosus subsp.* Borgmeier, 1955, m  
*N. piraticus* Borgmeier, 1953, m  
*N. planidens* Borgmeier, 1953, m  
*N. planidorsus* (Emery, 1905), w  
*N. postangustatus* (Borgmeier, 1934), w  
*N. postcarinatus* Borgmeier, 1953, w  
*N. pseudops* (Forel, 1909), wqm  
*N. puerulus* Borgmeier, 1955, m  
*N. pulchellus* Borgmeier, 1955, m  
*N. pullus* Borgmeier, 1953, m  
*N. quadratooccipitus* Watkins, 1974, m  
*N. radoszkowskyi* (Emery, 1900), m  
*N. raptans* (Forel, 1911), wqm  
*N. romandi* (Shuckard, 1840), m  
*N. rosenbergi* (Forel, 1911), m  
*N. rugulosus* Borgmeier, 1953, w  
*N. scutellaris* Borgmeier, 1953, m  
*N. shuckardi* (Emery, 1900), m  
*N. spatulatus* (Borgmeier, 1939), m  
*N. spinolai* (Westwood, 1842), wqm  
*N. spoliator* (Forel, 1899), m  
*N. sulcatus* (Mayr, 1868), m  
*N. sumichrasti* (Norton, 1868), w  
*N. swainsoni* (Shuckard, 1840), m  
*N. tenuis* Borgmeier, 1953, m  
*N. texanus* Watkins, 1972, wqm  
*N. tristis* (Forel, 1901), m  
*N. vicinus* Borgmeier, 1953, m

*N. walkeri* (Westwood, 1842), m

*Nomamyrmex*

*Noma. esenbecki s.str.* (Westwood, 1842), wm

*Noma. esenbecki crassicornis* (Fr. Smith, 1855), wm

*Noma. esenbecki n.subsp.*, wm

*Noma. esenbecki wilsoni* (Santschi, 1920), wm

*Noma. hartigi* (Westwood, 1842), wm

## KEY TO GENERA OF NEW WORLD DORYLINAE

### Workers

- 1.a. Postpetiole absent ..... *Cheliomyrmex*
- b. Postpetiole present ..... 2
- 2.a. Tarsal claws without teeth ..... *Neivamyrmex*
- b. Tarsal claws with teeth ..... 3
- 3.a. Scape thick (apical width greater than one-third its length, Pl. 3,  
    Fig. 6) ..... *Nomamyrmex*
- b. Scape slender (apical width less than one-third its length, Pl. 3,  
    Fig. 3) ..... 4
- 4.a. Posterodorsal corner of propodeum with teeth or lamellae (Pl. 4,  
    Fig. 1-10) ..... *Eciton*
- b. Posterodorsal corner of propodeum rounded and without teeth  
      or lamellae ..... *Labidus*

### Males

- 1.a. Apex of sagitta with setae (Pl. 1, Fig. 4; Pl. 2, Fig. 1, 2, 4; Pl. 3,  
    Fig. 8, 9); body length 15-23 mm ..... 2
- b. Apex of sagitta without setae (Pl. 5, Fig. 7; Pl. 20, Fig. 1-9); body  
      length 5-18 mm ..... 4
- 2.a. Gastric tergites with conspicuous tufts of long dense setae . . *Nomamyrmex*
- b. Gastric tergites without conspicuous tufts of long dense setae ..... 3
- 3.a. Length of flagellum about equal to or slightly longer than greatest  
    width of head; subgenital plate with four teeth—two outer apical  
    and two inner subapical ..... *Cheliomyrmex*
- b. Length of flagellum at least one and one-fourth times greatest  
    width of head; subgenital plate with two apical teeth ..... *Labidus*
- 4.a. Ventral projections of sagitta fused or slightly separated and  
    usually with rounded apex (Pl. 5, Fig. 7); volsella tapered distally  
    to a blunt apex (Pl. 5, Fig. 8); body length 15-18 mm ..... *Eciton*
- b. Ventral projections of sagitta divergent and sharp pointed (Pl.  
      20, Fig. 1-9); volsella blade-shaped, hook-shaped, or forked, and  
      ending in sharp apex (Pl. 20, Fig. 10-20); body length 5-18 mm  
      ..... *Neivamyrmex*

## KEY TO SPECIES OF *CHELIOMYRMEX*

(Numbers following species are map references)

### Soldiers

- 1.a. Body dark brown; head and thorax thickly punctated ..... *andicolus* (5)

- b. Body reddish yellow; head and thorax smooth ..... 2
- 2.a. Sixth flagellar segment broader than long; metapleuron punctated ..... *morosus* (3)
- b. Sixth flagellar segment longer than broad; metapleuron with fine striae ..... *megalonyx* (5)

#### *Males*

- 1.a. Body black or blackish brown ..... 2
- b. Body reddish brown ..... 3
- 2.a. Distance from lateral ocellus to compound eye equal to or greater than diameter of lateral ocellus; height of compound eye about equal to length of scape exclusive of basal condyle ..... *ursinus* (4)
- b. Distance from lateral ocellus to compound eye one-half or less the diameter of lateral ocellus; height of compound eye distinctly greater than length of scape exclusive of basal condyle ..... *morosus* (3)
- 3.a. Metatibia distinctly bent (Pl. 3, Fig. 11), dorsal longitudinal surface distinctly concave ..... *audax* (5)
- b. Metatibia not distinctly bent (Pl. 3, Fig. 12), dorsal longitudinal surface straight ..... *megalonyx* (5)

### KEY TO SPECIES OF *NOMAMYRMEX*

(Numbers following species are map references)

#### *Workers*

- 1.a. Postoccipital sulcus absent; dorsum of petiole without longitudinal rugae ..... *hartigi* (9)
- b. Postoccipital sulcus distinct; dorsum of petiole with longitudinal rugae ..... *esenbecki* (10-12)

#### *Males*

- 1.a. Border of head behind ocellar peduncle without lamella; first gastric tergite without longitudinal rugae; width of blade of stipes at least two-thirds its length (Pl. 1, Fig. 6); posteroventral projection of volsella triangular with a small dorsal tooth near sharp apex (Pl. 1, Fig. 7, 8) ..... *hartigi* (9)
- b. Median border of head behind ocellar peduncle with narrow lamella; first gastric tergite usually with longitudinal rugae; width of blade of stipes about one-half its length (Pl. 1, Fig. 5); volsella blunt, gradually tapered or foot-shaped (Pl. 1, Fig. 9-14) ..... *esenbecki* (10-12)

## KEY TO SPECIES OF *LABIDUS*

(Number following species are map references)

### *Workers (Soldiers and larger workers)*

- 1.a. Petiole without anteroventral tooth ..... *praedator* (6)
- b. Petiole with anteroventral tooth ..... 2
- 2.a. Basal surface of propodeum broader than long, and only slightly lower than the mesonotum ..... *mars* (8)
- b. Basal surface of propodeum longer than broad, and strongly depressed below the mesonotum ..... 3
- 3.a. Length of scape less than five times its apical width, and about one-half the head length; nodes of petiole and postpetiole about same length (dorsal view) ..... *coecus* (1)
- b. Length of scape more than five times its apical width, and at least two-thirds the head length; node of petiole slightly longer than node of postpetiole (dorsal view) ..... *spininodis* (7)

### *Males*

- 1.a. Dorsal projection of sagitta broadly rectangular, about as broad as length of ventral projection (Pl. 2, Fig. 1, 2); sagitta of *nero denticulatus* with large teeth on posterior border of dorsal projection (Pl. 2, Fig. 2); posterior border of expanded apex of volsella more or less evenly serrated (Pl. 2, Fig. 10) ..... *nero* (8)
- b. Dorsal projection of sagitta rounded or distinctly narrower than length of ventral projection; distal portion of volsella with irregular teeth (Pl. 2, Fig. 8, 9, 11-15) ..... 2
- 2.a. Anterior border of clypeus concave in the middle; volsella somewhat hook-shaped with a posterior projection (Pl. 2, Fig. 8) *coecus* (1)
- b. Anterior border of clypeus straight or convex in the middle; volsella not hook-shaped ..... 3
- 3.a. Distance from lateral ocellus to compound eye at least one and one-half times the diameter of the lateral ocellus ..... 4
- b. Distance from lateral ocellus to compound eye about equal the diameter of the lateral ocellus (may be slightly more or less) ..... 5
- 4.a. Mandible gradually tapered to a pointed apex (Pl. 3, Fig. 5); anterior border of clypeus strongly convex ..... *curvipes* (2)
- b. Apex of mandible truncated (Pl. 3, Fig. 4); anterior border of clypeus slightly convex ..... *truncatidens* (7)
- 5.a. Apical one-third of stipes blade-shaped and abruptly narrowed (Pl. 2, Fig. 6); mandible gradually tapering to a pointed apex; anterior border of clypeus broadly and slightly convex ..... *europubens* (2)
- b. Apex of stipes bluntly rounded (Pl. 2, Fig. 7); mandible abruptly

narrowed near the apex; median portion of anterior border of clypeus almost straight ..... *praedator* (6)

## KEY TO SPECIES OF *ECITON*

(Numbers following species are map references)

### Workers

- 1.a. Occipital corners without distinct teeth ..... *dulcius* (24, 25)
- b. Occipital corners with sharp teeth ..... 2
- 2.a. Propodeal teeth fused (Pl. 4, Fig. 8) ..... *mexicanum* (28, 29, 30)
- b. Propodeal teeth separated ..... 3
- 3.a. Propodeal teeth spinous (lateral view, Pl. 4, Fig. 2, 5, 9) ..... 4
- b. Propodeal teeth triangular or rounded (Pl. 4, Fig. 1, 3, 4, 6, 8, 10) ..... 6
- 4.a. Head and alitrunk black, gaster yellow to orange; propodeal spine thin and sharp (Pl. 4, Fig. 2); mandibles of soldiers never hook-shaped ..... *rapax* (23)
- b. Head and alitrunk reddish brown to blackish brown, gaster reddish brown to orange; propodeal spine (Pl. 4, Fig. 5, 9) broader than in *rapax*; mandibles of soldiers hook-shaped (Pl. 3, Fig. 1) ..... 5
- 5.a. Propodeal teeth about as long as propodeal spiracles (Pl. 4, Fig. 5); mandibles (exclusive of recurved tips) of soldiers about as long as width of head (Pl. 3, Fig. 1) ..... *quadriglume* (22)
- b. Propodeal teeth shorter than propodeal spiracles (Pl. 4, Fig. 9); mandibles (exclusive of recurved tips) of soldiers distinctly longer than width of head ..... *vagans* (18-21)
- 6.a. Distinct single median longitudinal keel on sloping surface of propodeum; propodeal spiracle almost perpendicular to dorsal surface (Pl. 4, Fig. 4, 6); strigile of metatibia about two times longer than wide; hook-shaped mandible of soldier with large median tooth on inner surface (Pl. 3, Fig. 2) ..... *lucanoides* (31)
- b. Longitudinal keels on sloping surface of propodeum paired or absent; propodeal spiracle at angle of 70-80 degrees from dorsal surface of propodeum (Pl. 4, Fig. 1, 3, 10); strigile of metatibia at least three times longer than wide; hook-shaped mandible of soldier without distinct tooth on inner surface ..... 7
- 7.a. Node of petiole trapezoidal or subquadrate (dorsal view); alitrunks of media and minor workers usually brownish or blackish; head of soldier not distinctly shining ..... *burchelli* (13-15, 17)
- b. Node of petiole elongate rectangular (dorsal view); body unicolorous yellowish or light reddish; head of soldier distinctly shining .... 8
- 8.a. Area between propodeal keels narrowed posteriorly (dorsal

view); second segment of flagellum slightly longer than twice its greatest width (soldiers); second segment of flagellum longer than apical width of scape (workers) ..... *hamatum* (27)

- b. Propodeal keels about parallel (dorsal view); second segment of flagellum slightly shorter than twice its greatest width (soldiers); second segment of flagellum not longer than apical width of scape (workers) ..... *drepanophorum* (16)

## Males

- 1.a. Greatest width of mandible about equal to or less than distance between antennal bases ..... 2
- b. Greatest width of mandible distinctly greater than distance between antennal bases ..... 8
- 2.a. Apex of mandible broadly rounded (Pl. 5, Fig. 2) ..... *jansoni* (26)
- b. Apex of mandible pointed or angular ..... 3
- 3.a. Broadest portion of mandible nearer its base than its apex ..... 4
- b. Broadest portion of mandible not nearer its base than its apex ..... 6
- 4.a. Outer surface of mandible almost straight along its basal two-thirds (Pl. 5, Fig. 1) ..... *burchelli* (13-15, 17)
- b. Outer surface of mandible distinctly bent or convex along its basal one-third to one-half (Pl. 5, Fig. 3, 4) ..... 5
- 5.a. Mandible distinctly longer than height of head; mandible (straight line from apex to inner base) at least four times longer than greatest width (Pl. 5, Fig. 4) ..... *dulcius* (24, 25)
- b. Mandible about as long as height of head or shorter; mandible (straight line from apex to inner base) about three times longer than greatest width (Pl. 5, Fig. 3) ..... *quadriglume*<sup>1</sup> (22)
- 6.a. Gaster without long setae; claw without tooth, except *vagans allognathum* ..... *vagans* (18-21)
- b. Gaster with long setae; claw with tooth ..... 7
- 7.a. Color brownish; scape without setae; setae on gastric tergites two-four confined to posterior half of each tergite ..... *setigaster* (31)
- b. Color yellowish or light reddish brown; scape with numerous setae; setae of gastric tergites scattered over entire surface .. *hamatum* (27)
- 8.a. Distal surface of inner triangular projection of mandible almost straight except for curved apical tooth (Pl. 5, Fig. 5) ..... *uncinatum* (26)

<sup>1</sup> The *E. rapax* male also keys to *E. quadriglume*. The male of *E. rapax* was described by Rettenmeyer (1974) after the above key had been completed. According to Rettenmeyer, "The males can be easily distinguished by the following characters: *E. rapax* has tibiae and tarsi of much lighter color than the rest of the legs, the venter of the gaster has long hairs almost restricted to the fifth sternite, the mandible has one large, bluntly rounded "tooth" slightly basal of the middle, and the surface medial to the dorsolateral margin of the propodeum is flat to weakly convex."

- b. Distal surface of inner projection of mandible not straight, but convex or forming a slight corner before flowing into curved apical tooth (Pl. 5, Fig. 6) ..... *mexicanum* (28-30)

## KEY TO SPECIES OF *NEIVAMYRMEX*

(Numbers following species are map references)

### Workers

- 1.a. Mesonotum distinctly humped (Pl. 6, Fig. 2, 4, 5, 7, 10) and/or apex of antennal scape distinctly exceeds upper margin of head ..... 2
- b. Mesonotum gradually arched or flattened and antennal scape does not distinctly exceed upper margin of head ..... 7
- 2.a. Apex of scape does not exceed upper margin of head (Pl. 6, Fig. 1) ..... *legionis* (111)
- b. Apex of scape distinctly exceeds upper margin of head (Pl. 6, Fig. 3, 8, 9) ..... 3
- 3.a. Dorsal surface of propodeum longer than descending surface (lateral view, Pl. 6, Fig. 4, 10) ..... 4
- b. Dorsal surface of propodeum not longer than descending surface (lateral view, Pl. 6, Fig. 5, 7) ..... 5
- 4.a. Postpetiole higher (lateral view) than long; mesonotum moderately humped (Pl. 6, Fig. 4) ..... *pseudops* (71)
- b. Postpetiole about as long as high (lateral view); mesonotum strongly humped (Pl. 6, Fig. 10) ..... *gibbatus* (109)
- 5.a. Postpetiole wider (dorsal view) and higher (lateral view, Pl. 6, Fig. 5) than long; second segment of flagellum about as wide as long (Pl. 6, Fig. 6) ..... *gradualis* (72)
- b. Postpetiole slightly longer than wide (dorsal view) and about as long as high (lateral view); second segment of flagellum longer than wide ..... 6
- 6.a. Head and alitrunk dark brown to black; eyes smaller than basal condyle of scape (Pl. 6, Fig. 8); node of petiole smoothly rounded (lateral view, Pl. 6, Fig. 7) ..... *cristatus* (72)
- b. Head and alitrunk reddish brown; eyes as large as basal condyle of scape (Pl. 6, Fig. 9); node of petiole with irregular ridges (lateral view, Pl. 6, Fig. 10) ..... *gibbatus* (109)
- 7.a. Transverse carina present near junction of dorsal and descending surfaces of propodeum (Pl. 7, Fig. 4, 6) ..... 8
- b. Transverse carina absent at juncture of dorsal and descending surfaces of propodeum ..... 9
- 8.a. Transverse carina of propodeum weak and barely visible from

- lateral view (Pl. 7, Fig. 4), apex of antennal scape extends to about eye level ..... *diana*(65)
- b. Transverse carina of propodeum well developed and shelf-like from lateral view (Pl. 7, Fig. 6), apex of antennal scape distinctly exceeds the eye level ..... *postcarinatus*(64)
- 9.a. Declining surface of propodeum strongly concave or distinctly indented below a rounded dorsoposterior corner, and usually with distinct longitudinal carina along the lateral edges (Pl. 7, Fig. 1, 3, 5, 7, 11) ..... 10
- b. Declining surface of propodeum rounded, straight, or weakly concave and not distinctly indented, and usually without distinct longitudinal carina along the lateral edges (Pl. 9, Fig. 6, 8) ..... 20
- 10.a. Dorsum of propodeum, in profile, not depressed below mesonotum, but together form an almost level (straight or slightly curved) dorsal surface (Pl. 7, Fig. 1, 11) ..... 11
- b. Dorsum of propodeum, in profile, clearly depressed below mesonotum ..... 12
- 11.a. Eye small, but distinct; apex of scape clearly exceeds eye level; postpetiole longer than greatest width; weak indentation or slight curve in dorsum at juncture of mesonotum and propodeum (Pl. 7, Fig. 1) ..... *emersoni*(88)
- b. Eye indistinct; apex of scape about reaches eye level; length of postpetiole about equals its greatest width; mesonotal and propodeal dorsa, in profile, form a straight surface without an indentation at their juncture (Pl. 7, Fig. 11) ..... *orthonotus*(100)
- 12.a. Apex of scape nearer upper head margin than eye level; eye with distinct convex cornea ..... 13
- b. Apex of scape nearer eye level than upper head margin; eye indistinct or absent, and without distinct convex cornea ..... 17
- 13.a. Head thickly punctated and finely reticulated, dull to slightly shiny .... 14
- b. Head smooth and with sparse small punctations, distinctly shiny ..... 15
- 14.a. Postpetiole longer than greatest width; alitrunk densely granulated and dull; Costa Rica ..... *asper*(40)
- b. Postpetiole about as long as greatest width (Pl. 20, Fig. 32); alitrunk less densely granulated and slightly shiny; Brazil .... *minensis*(82)
- 15.a. Postpetiole longer than greatest width (Pl. 20, Fig. 25), and about as high as long with an evenly rounded node in profile (Pl. 7, Fig. 5) ..... *alfaroi*(104)
- b. Postpetiole about as long as greatest width (Pl. 20, Fig. 26), and higher than long with posterior surface of node more steeply sloping than anterior surface ..... 16
- 16.a. Head with violet reflections; postpetiole about five-sixths as long

- as high (Pl. 7, Fig. 3); Panama, Guianas, Bolivia . . . . . *iridescens* (104)
- b. Head without violet reflection; postpetiole about three-fourths as long as high; Peru . . . . . *pacificus* (82)
- 17.a. Anteroventral tooth of petiole large (Pl. 7, Fig. 7); dorsum of propodeum, in profile, distinctly arched and separated from mesonotum by deep indentation (Pl. 7, Fig. 7) . . . . . *adnepos* (100)
- b. Anteroventral tooth of petiole small or absent; dorsum of propodeum, in profile, almost level except rounded near posterior corner and with only a shallow indentation or suture separating it from mesonotum . . . . . 18
- 18.a. With distinct lamella in front of antennal fossa; postpetiole slightly narrower than petiole, and with a distinctly elongate-oval node (dorsal view, Pl. 20, Fig. 22) . . . . . *angustinodis* (83)
- b. Without distinct lamella in front of antennal fossa; postpetiole as wide or wider than petiole . . . . . 19
- 19.a. Postpetiole wider than long, and wider than petiole (Pl. 20, Fig. 33); largest worker about 5 mm long . . . . . *bobbsi* (101)
- b. Postpetiole longer than wide, and about same width as petiole (Pl. 20, Fig. 27); largest worker less than 4 mm long . . . . . *balzani* (101)
- 20.a. Declining surface of propodeum as long or longer than dorsal surface, eye without distinct convex cornea, petiole subquadrate and apex of scape does not exceed eye level or middle of head if eye is absent . . . . . 21
- b. One or more of above characteristics (20.a.) is different . . . . . 31
- 21.a. Anteroventral tooth of petiole indistinct or absent . . . . . 22
- b. Anteroventral tooth of petiole large and triangular . . . . . 24
- 22.a. Postpetiole longer than wide (Pl. 20, Fig. 23, 24); apex of scape extends to middle of head . . . . . *modestus* (83)
- b. Postpetiole wider than long; apex of scape does not reach eye level or middle of head . . . . . 23
- 23.a. Broad lamella present in front of antennal fossa; node of petiole about as long as wide (Pl. 20, Fig. 29); largest workers less than 4.0 mm long . . . . . *leonardi* (56)
- b. Lamella very short or absent in front of antennal fossa; node of petiole longer than wide (Pl. 20, Fig. 28); largest workers about 5.5 mm long . . . . . *antillanus* (59)
- 24.a. Pronotum with a transverse carina; petiole longer than wide . . . . . 25
- b. Pronotum without a transverse carina; petiole about as wide or wider than long, except *fallax* whose petiole may be slightly longer than wide . . . . . 26
- 25.a. Apex of scape not reaching eye level (Pl. 10, Fig. 8); transverse

- carina on pronotum very fine; posterolateral corners of head slightly drawn out; length of largest worker about 4.0 mm *planidorsus*(75)
- b. Apex of scape about reaching level of eye or middle of head; transverse carina on pronotum distinct; posterolateral corners of head strongly drawn out (Pl. 10, Fig. 6); length of largest worker about 5.0 mm ..... *pertyi*(70)
- 26.a. Basal tooth of mandible of major enormous (Pl. 8, Fig. 19, 20); eye completely absent; alitrunk of largest worker less than 1.2 mm long ..... 27
- b. Basal tooth of mandible moderate to small; eye reduced to yellow speck below cuticle; alitrunk of largest worker greater than 1.2 mm long ..... 28
- 27.a. Basal tooth of mandible of major longer than its basal width, somewhat bent, and longer than the apical tooth of masticatory margin (Pl. 8, Fig. 20); Costa Rica ..... *macrodentatus*(57)
- b. Basal tooth of mandible of major about as long as its basal width, not bent, and shorter than the apical tooth of masticatory margin (Pl. 8, Fig. 19); U.S.A.: Texas, Louisiana ..... *moseri*(57)
- 28.a. Node of petiole wider than long ..... 29
- b. Node of petiole as long as wide or slightly longer ..... 30
- 29.a. Alitrunk with abundant setae; head coarsely punctate; length of largest worker about 5.8 mm ..... *spinolai*(78)
- b. Alitrunk with sparse setae; head finely punctate; length of largest worker about 4.0 mm ..... *bruchii*(77)
- 30.a. Apex of scape thick and distinctly not reaching eye level (Pl. 10, Fig. 7); length of largest worker about 4.4 mm; U.S.A., Mexico, Guatemala ..... *fallax*(58)
- b. Apex of scape thinner and about reaching eye level (Pl. 10, Fig. 5); length of largest worker about 5.0 mm; Peru, Bolivia ..... *nordenskiöldi*(70)
- 31.a. Basal surface of mandible (Pl. 9, Fig. 2) gradually curved into masticatory surface without a distinct corner or tooth at their juncture; basal surface not straight and usually without a distinct tooth; eye (although sometimes very small) always with a distinct convex cornea ..... 32
- b. Basal surface of mandible straight (Pl. 8, Fig. 1) or with a distinct tooth (Pl. 20, Fig. 34) and forms a sharp corner or tooth at the juncture with masticatory surface; convex cornea may be present or absent and eye may be reduced to yellow spot below cuticle or completely absent ..... 38
- 32.a. Head shiny and smooth except for scattered setae bearing punctations; posterolateral corners of head rounded ..... 33

- b. Head dull and thickly granulated, and sometimes strongly rugated or with large round pit-like depressions; posterolateral corners of head with triangular projections or distinct teeth (Pl. 6, Fig. 11-13; Pl. 9, Fig. 3) ..... 34
- 33.a. Apex of scape distinctly exceeds eye level; color yellowish red to reddish brown; U.S.A.: Calif., Nevada, Utah ..... *californicus* (32)
- b. Apex of scape about reaches eye level; head and gaster blackish or reddish brown with a blackish overcast, alitrunk reddish brown without a blackish overcast; Mexico: Hidalgo (Only media and minor workers will key out here; the largest workers have mandibles which will cause them to be keyed through couplet 31.b.) ..... *manni* (36)
- 34.a. Anteroventral tooth of petiole well developed, triangular and sharp pointed (Pl. 7, Fig. 9); apex of scape about reaches eye level ..... *densepunctatus* (79)
- b. Anteroventral tooth of petiole poorly developed or absent; apex of scape exceeds eye level ..... 35
- 35.a. Head and alitrunk with numerous large round pit-like depressions; color black to dark reddish brown. .... *sumichrasti* (37)
- b. Head and alitrunk, although thickly granulated and sometimes rugated, without distinct round pit-like depressions; color reddish brown ..... 36
- 36.a. Dorsum of propodeum lower than dorsum of mesonotum, but without a dorsal indentation or suture at their juncture (Pl. 9, Fig. 1); posterolateral corners of head strongly projecting (Pl. 9, Fig. 3) ..... *cornutus* (105)
- b. Dorsum of propodeum and mesonotum usually with a distinct indentation or suture at their juncture; posterolateral corners of head only moderately projecting or with slightly out-turned teeth (Pl. 6, Fig. 11, 12) ..... 37
- 37.a. Dorsal and declining surface of propodeum forming a slight angle at their juncture (Pl. 9, Fig. 6), posterolateral border of pronotum separated from mesothorax by a distinct "V-shaped" suture (Pl. 9, Fig. 6) ..... *texanus* (35)
- b. Dorsal surface of propodeum gradually rounding into the declining surface (Pl. 9, Fig. 8); posterolateral suture between pronotum and mesothorax shorter and not distinctly "V-shaped" (Pl. 9, Fig. 8) ..... *nigrescens* (33)
- 38.a. Eye with a distinct convex cornea ..... 39
- b. Eye without a distinct convex cornea, reduced to a yellow spot below the cuticle or absent ..... 48
- 39.a. Node of petiole subquadrate (dorsal view) ..... 40

- b. Node of petiole elongate (dorsal view) ..... 41
- 40.a. Posterior corners of head angular and projecting; lamella in front of antennal fossa broad and translucent; anteroventral tooth of petiole moderately well developed; largest workers more than 4 mm long ..... *barrisi* (34)
- b. Posterior corners of head rounded; without a lamella in front of antennal fossa; anteroventral tooth of petiole poorly developed; largest workers less than 4 mm long ..... *carolinensis* (41)
- 41.a. From a dorsal view, the concave portion of the posterior head margin appears slightly narrower than the greatest width of the alitrunk (Pl. 10, Fig. 1, 2), head smooth and shiny ..... 42
- b. From a dorsal view, the concave portion of the posterior head margin appears as wide or wider than the greatest width of the alitrunk (Pl. 10, Fig. 3, 4); head may be smooth and shiny or densely granulated and dull ..... 45
- 42.a. Head blackish brown to black ..... 43
- b. Head yellowish brown to reddish brown ..... 44
- 43.a. Head and alitrunk about same color; anteroventral tooth of petiole large and with an acute spine directed posteroventrad (Pl. 7, Fig. 12) ..... *pilosus* (61, 62)
- b. Head and gaster blackish brown, alitrunk reddish brown; anteroventral surface of petiole with a small tooth directed ventrad ..... *melanocephalus* (64)
- 44.a. Anteroventral tooth of petiole large and triangular (Pl. 8, Fig. 18); node of petiole in profile strongly convex (Pl. 8, Fig. 18); largest workers less than 5 mm long ..... *graciellae* (50)
- b. Anteroventral tooth of petiole short and spinous (Pl. 8, Fig. 17); node of petiole in profile somewhat flattened dorsally (Pl. 8, Fig. 17); largest workers more than 5 mm long ..... *impudens* (60)
- 45.a. Head smooth and shiny ..... 46
- b. Head densely granulated or punctated and dull ..... 47
- 46.a. Head and gaster blackish brown or reddish brown with a blackish overcast, alitrunk reddish brown without a blackish overcast; apex of scape about reaches eye level ..... *manni* (36)
- b. Head and alitrunk same color (reddish brown), gaster slightly lighter; apex of scape distinctly exceeds eye level ..... *opacithorax* (39)
- 47.a. Dorsum of mesonotum steeply sloping near posterior margin; postpetiole somewhat shiny; largest workers about 4 mm long .. *asper* (40)
- b. Dorsum of mesonotum gently sloping near posterior margin (Pl. 8, Fig. 3), postpetiole dull; largest workers about 5 mm long *rugulosus* (36)
- 48.a. From a dorsal view, concave portion of posterior head margin appears slightly narrower than greatest width of alitrunk (similar to

- Pl. 10, Fig. 1, 2); petiole distinctly longer than wide (elongate) ..... 49
- b. From a dorsal view, concave portion of posterior head margin appears as wide or wider than greatest width of alitrunk (similar to Pl. 10, Fig. 3, 4); petiole elongate *or* subquadrate ..... 52
- 49.a. Apex of scape distinctly not reaching eye level; anteroventral tooth of petiole large and broadly triangular in profile (Pl. 8, Fig. 8); largest worker about 6 mm long and with unusually large head ..... *goeldii* (67)
- b. Apex of scape almost reaches or surpasses eye level; anteroventral tooth of petiole, in profile, narrow and slightly curved, short or absent; largest worker less than 5 mm long and without unusually large head ..... 50
- 50.a. Head subquadrate (frontal view, Pl. 8, Fig. 12); eye located about half way between base of mandible and upper head corner; with a weak transverse dorsal pronotal ridge ..... *agilis* (60)
- b. Head somewhat oval (frontal view, Pl. 8, Fig. 4, 9); eye located above head middle; without transverse dorsal pronotal ridge ..... 51
- 51.a. Anteroventral tooth of petiole absent; postpetiole longer than wide; dorsum of propodeum, in profile, slightly convex and rounded into declining surface (Pl. 8, Fig. 10) ..... *humilis* (63)
- b. Anteroventral tooth of petiole long and slightly curved posteriorly (Pl. 8, Fig. 6); postpetiole about as wide as long; dorsum of propodeum, in profile, almost level except near anterior border, and forming blunt angle at juncture with declining surface (Pl. 8, Fig. 6) ..... *laevigatus* (66)
- 52.a. Petiole distinctly elongate from a dorsal view ..... 53
- b. Petiole subquadrate from a dorsal view (although sometimes slightly longer than wide, the node is distinctly quadrate) ..... 56
- 53.a. Dorsal surface of propodeum gradually and only slightly curves downward from mesonotum without a distinct dorsal juncture (lateral view, Pl. 7, Fig. 14) ..... *carettei* (103)
- b. Dorsal surface of propodeum distinctly lower and sharply depressed below mesonotum (lateral view, Pl. 7, Fig. 2, 13; Pl. 8, Fig. 13) ..... 54
- 54.a. Apex of scape distinctly above eye level; postpetiole distinctly elongate, about one and one-third longer than wide (dorsal view, Pl. 20, Fig. 21) ..... *compressinodis* (88)
- b. Apex of scape about eye level or slightly below; postpetiole as wide or wider than long (dorsal view, Pl. 8, Fig. 7; Pl. 20, Fig. 30) ..... 55
- 55.a. Suture between promesonotum and mesopleuron, in profile, complete and distinct (Pl. 8, Fig. 13); petiole longer and slightly narrower than postpetiole (dorsal view, Pl. 8, Fig. 7) ..... *agilis* (60)

- b. Suture between promesonotum and mesopleuron, in profile, incomplete (Pl. 7, Fig. 13); petiole about as long and distinctly narrower than postpetiole (dorsal view, Pl. 20, Fig. 30) . . . *postangustatus* (85)
- 56.a. Apex of scape distinctly below eye level and head middle; without a dorsal transverse ridge on pronotum . . . . . 57
- b. Apex of scape about eye level or slightly below; with a fine dorsal transverse ridge on pronotum . . . . . 59
- 57.a. Lamellae in front of antennal fossa broad; small yellow eye specks can usually be seen below cuticle, especially in workers preserved in alcohol; anteroventral tooth of petiole small . . . . . *leonardi* (56)
- b. Lamella in front of antennal fossa narrow or absent; eyes completely absent; anteroventral tooth of petiole moderately large to large . . . . . 58
- 58.a. Basal tooth of mandible large (Pl. 8, Fig. 19); lamella in front of antennal fossa absent; head moderately punctated . . . . . *moseri* (57)
- b. Basal tooth of mandible medium size to small (Pl. 20, Fig. 34); lamella in front of antennal fossa narrow; head with very sparse small punctations . . . . . *pauxillus* (38)
- 59.a. Dorsal surface of propodeum gradually and only slightly curves downward from mesonotum without a distinct dorsal juncture or suture (lateral view, Pl. 7, Fig. 14) . . . . . *carettei* (103)
- b. Dorsal surface of propodeum distinctly lower and sharply depressed below mesonotum or with a distinct dorsal mesopropodeal suture (lateral view, Pl. 7, Fig. 8, 10; Pl. 8, Fig. 15, 16) . . . . . 60
- 60.a. Anteroventral tooth of petiole large, triangular and sharp pointed (Pl. 8, Fig. 15, 16) . . . . . 61
- b. Anteroventral tooth of petiole small or absent (Pl. 7, Fig. 8, 10) . . . . . 62
- 61.a. Basal surface of mandible concave; declining surface of propodeum, in profile, moderately sloping (Pl. 8, Fig. 16) . . . . *d'orbignyi* (80)
- b. Basal surface of mandible straight; declining surface of propodeum, in profile, almost vertical (Pl. 8, Fig. 15) . . . . . *diversinodis* (81)
- 62.a. Postpetiole slightly longer than wide, and about as wide as petiole (dorsal view, Pl. 20, Fig. 23, 24); alitrunk of largest worker about 1.2 mm long, body length about 3.2 mm . . . . . *modestus* (83)
- b. Postpetiole slightly wider than long, and wider than petiole (dorsal view, Pl. 8, Fig. 2; Pl. 20, Fig. 31); alitrunk of largest worker more than 1.4 mm long, body length about 4.0 mm . . . . . 63
- 63.a. Dorsal surface of propodeum, in profile, distinctly longer than declining surface which is slightly concave (Pl. 7, Fig. 8); segments three through eight of flagellum usually as long as wide or slightly longer . . . . . *raptans* (86)

- b. Dorsal surface of propodeum, in profile, slightly longer than declining surface which is almost straight (Pl. 7, Fig. 10), segments three through eight of flagellum usually slightly wider than long ..... *hetschkoi*(84)

## Males

- 1.a. Apex of subgenital plate with two teeth (Pl. 19, Fig. 18) ..... 2
- b. Apex of subgenital plate with three teeth (Pl. 19, Fig. 21) (*Caution*: the middle tooth may be very short and sometimes blunt) ..... 13
- c. Apex of subgenital plate with four teeth (Pl. 19, Fig. 22) (*Caution*: the two middle teeth may be very short) ..... 72
- 2.a. Lower border of clypeus with two distinct teeth or strongly projecting lobes (Pl. 13, Fig. 1, 4-9) ..... 3
- b. Lower border of clypeus without two distinct teeth or strongly projecting lobes ..... 9
- 3.a. Stipes with a deep subapical dorsal notch (Pl. 19, Fig. 16); apex of stipes bluntly angular or broadly rounded and without an apical tooth .. 4
- b. Stipes without a subapical dorsal notch, but with a broad subapical dorsal projection; apex of stipes with a hook-shaped tooth (Pl. 17, Fig. 9) ..... 7
- 4.a. Scape slightly or distinctly longer than mandible; apex of scape distinctly surpassing upper head margin ..... 5
- b. Scape about as long as mandible or slightly shorter; apex of scape about reaches or slightly surpasses upper head margin ..... 6
- 5.a. Color black or very dark brown; profemur strongly thickened; Panama ..... *puerulus*(87)
- b. Color reddish brown; profemur slender; southeast Brazil .... *gracilis*(96)
- 6.a. Distinct angular frontal carina present between upper margin of compound eye and lateral ocellus (Pl. 13, Fig. 9); apex of scape about reaching dorsum of lateral ocellus ..... *radoszkowskyi*(87)
- b. Frontal carina absent between upper margin of compound eye and lateral ocellus; apex of scape slightly exceeding dorsum of lateral ocellus ..... *pulchellus*(90)
- 7.a. Apex of teeth on lower margin of clypeus sharp (Pl. 13, Fig. 5, 6); border of clypeus between teeth distinctly concave ..... *klugi*(94)
- b. Apex of teeth on lower margin of clypeus bluntly rounded (Pl. 13, Fig. 7, 8); border of clypeus between teeth somewhat angularly indented ..... 8
- 8.a. Frons black with dense pit-like punctations; distance from lateral ocellus to compound eye about equal diameter of median ocellus (Pl. 13, Fig. 7) ..... *planidens*(90)
- b. Frons brown with only fine punctations; distance from lateral

- ocellus to compound eye less than one-half diameter of median ocellus (Pl. 13, Fig. 8) ..... *imbellis* (90)
- 9.a. Subgenital plate only weakly expanded distally and with a small bump between the two apical teeth (ventral view, Pl. 19, Fig. 20); stipes somewhat snout-shaped with a broadly rounded dorsomedial projection, a slightly down-turned distal half and broadly rounded apex (lateral view, Pl. 18, Fig. 22); metatibia distinctly curved ..... *carinifrons* (99)
- b. Subgenital plate strongly expanded distally and without a small median bump between the two apical teeth—area between teeth may have a broad flange with small corners that could be construed as two middle teeth (ventral view); stipes not snout-shaped; metatibia almost straight except for a slight curve near base . . . 10
- 10.a. Inner margin of compound eye strongly concave (frontal view, Pl. 11, Fig. 3); distal portion of stipes somewhat foot-shaped, curved upward with rounded apex (lateral view, Pl. 17, Fig. 20, 21); length less than 14 mm ..... *hopei* (92)
- b. Inner margin of compound eye slightly concave to convex (frontal view); distal portion of stipes not foot-shaped; length 14 mm or longer ..... 11
- 11.a. Distance from lateral ocellus to compound eye much greater than diameter of median ocellus; compound eye less than 1 mm high *emeryi* (69)
- b. Distance from lateral ocellus to compound eye less than diameter of median ocellus; compound eye 1 mm or more in height . . . . . 12
- 12.a. Stipes with a small dorsal hook-shaped tooth located about one-third the distance from apex of stipes to base, and with ventral margin strongly convex along distal one-half (lateral view, Pl. 17, Fig. 13); posterodorsal corner of sagitta almost forming a right-angle and not projecting over ventral apical teeth (lateral view, Pl. 20, Fig. 6) ..... *pertyi* (70)
- b. Stipes without a dorsal tooth, and with a straight or slightly concave ventral margin (lateral view, Pl. 17, Fig. 11, 12); posterodorsal corner of sagitta forms a strong projection which extends over ventral apical teeth (lateral view, Pl. 20, Fig. 4) *jerrmanni* (68)
- 13.a. Lower border of clypeus with two large teeth (Pl. 13, Fig. 1, 4) . . . . . 14
- b. Lower border of clypeus without teeth . . . . . 15
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# PLATE 1

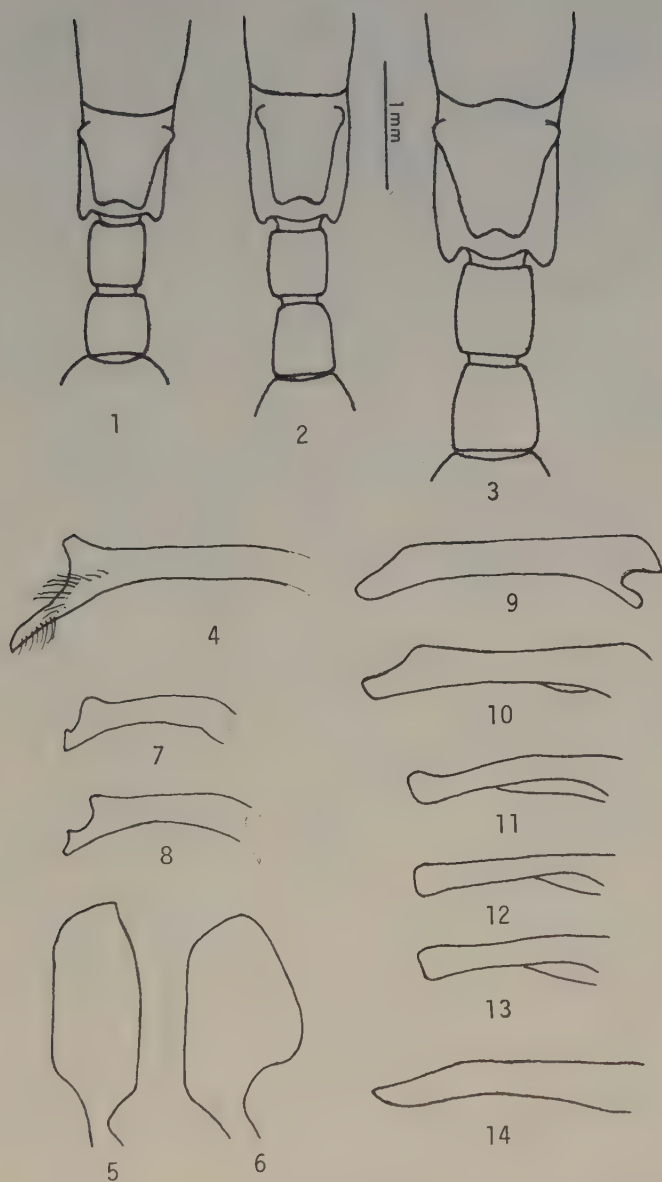


Plate 1. Fig. 1-3 major workers of (1) *Nomamyrmex esenbecki* s. str., (2) *Noma. esenbecki crassicornis*, (3) *Noma. esenbecki* n. subsp. Fig. 4 sagitta of *Noma. esenbecki* s. str. Fig. 5-6 stipites of (5) *Noma. esenbecki* s. str., (6) *Noma. hartigi*. Fig. 7-14 volsellae of (7,8) *Noma. hartigi*, (9,10) *Noma. esenbecki* s. str., (11) *Noma. esenbecki crassicornis*, (12,13) *Noma. esenbecki wilsoni*, (14) *Noma. esenbecki* n. subsp.

# PLATE 2

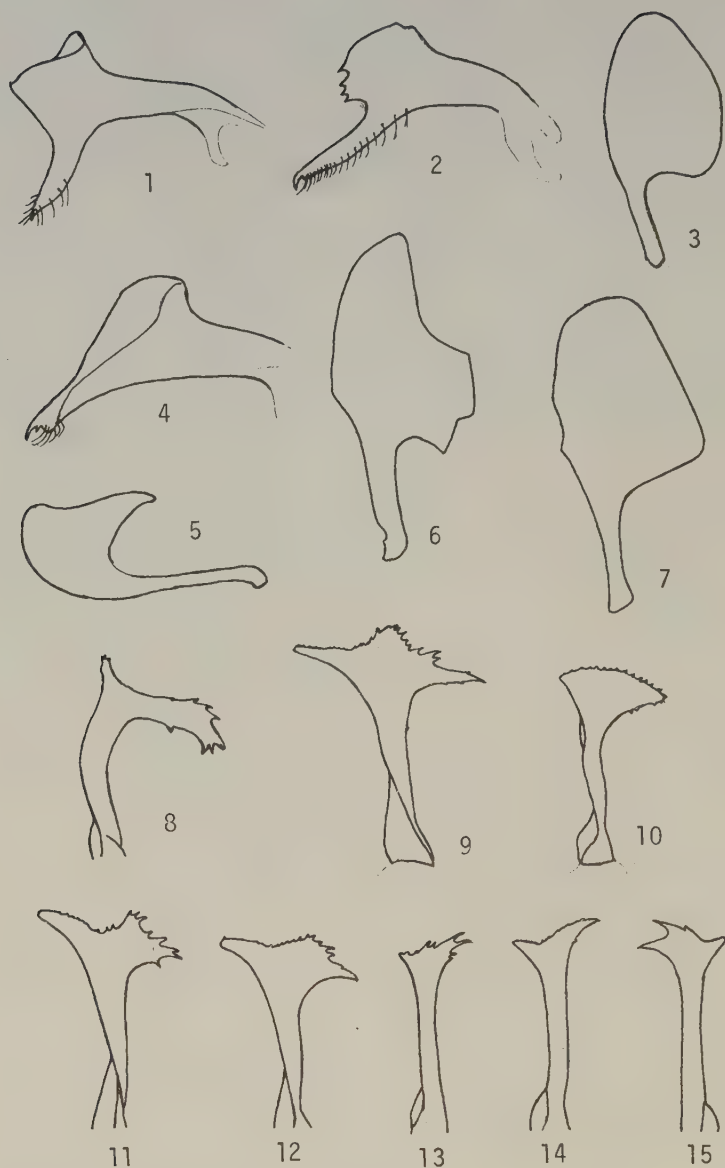


Plate 2. Fig. 1,2,4 sagittae of (1) *Labidus nero* s. str., (2) *L. nero denticulatus*, (4) *L. praedator* s. str. Fig. 3,5-7 stipites of (3) *L. coecus*, (5) *L. nero* s. str., (6) *L. auropubens*, (7) *L. praedator* s. str. Fig. 8-15 volsellae of (8) *L. coecus*, (9) *L. praedator* s. str., (10) *L. nero* s. str., (11) *L. truncatidens*, (12) *L. praedator sedulus*, (13) *L. curvipes*, (14,15) *L. auropubens*.

# PLATE 3

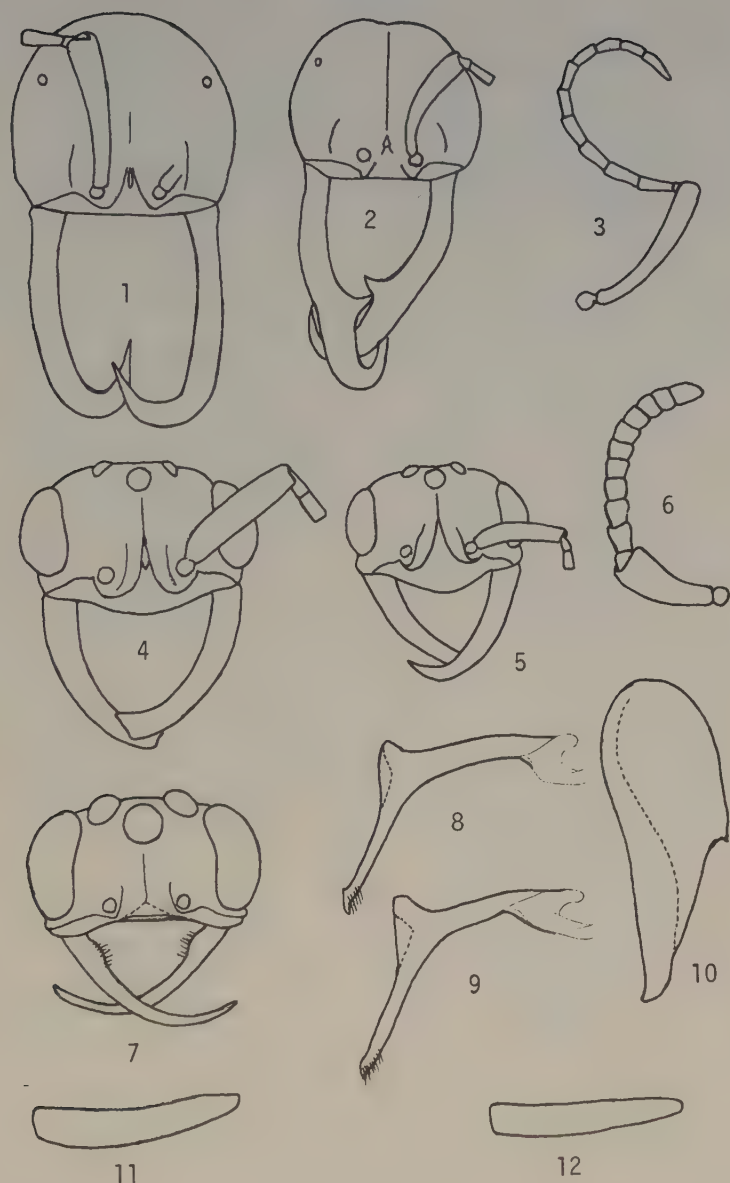


Plate 3. Fig. 1-3 soldiers of (1) *Eciton quadriglume*, (2) *E. lucanoides*, (3) *E. burchelli* s. str. Fig. 4-5 males of (4) *Labidus truncatidens*, (5) *L. curvipes*. Fig. 6 soldier of *Nomamyrmex esenbecki crassicornis*. Fig. 7 male of *Cheliomyrmex audax*. Fig. 8-9 sagittae of (8) *C. morosus*, (9) *C. megalonyx*. Fig. 10 stipes of *C. morosus*. Fig. 11-12 metatibiae of males of (11) *C. audax*, (12) *C. megalonyx*.

# PLATE 4

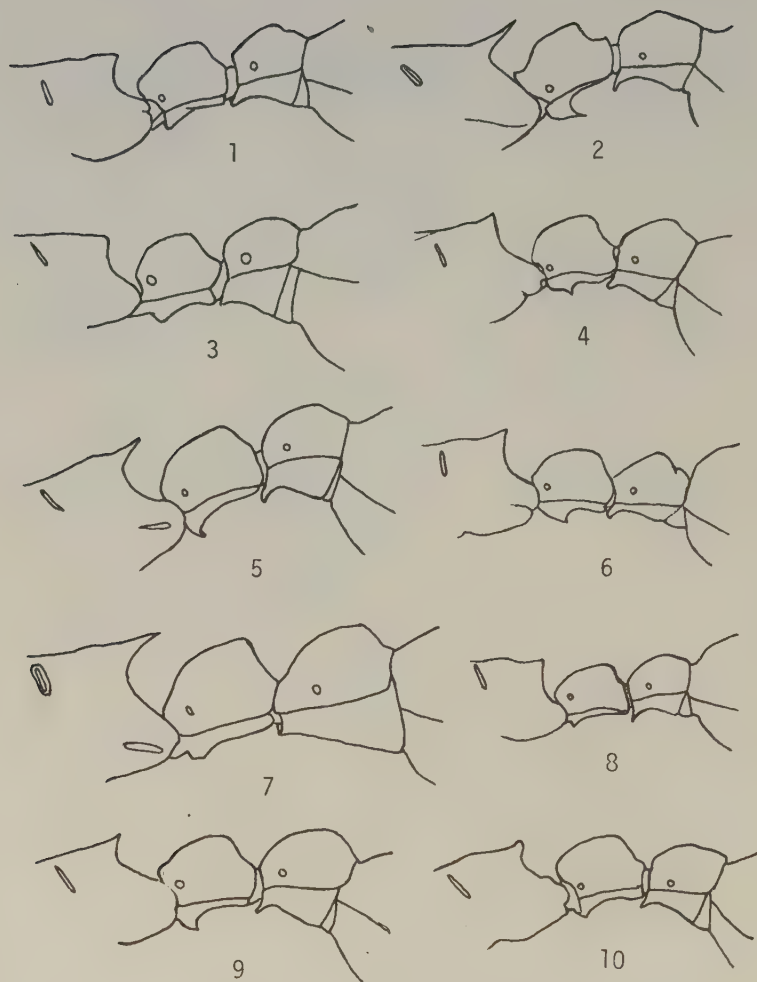


Plate 4. Fig. 1-10 soldiers of (1) *Eciton hamatum*, (2) *E. rapax*, (3) *E. burchelli* s. str., (4) *E. lucanoides* s. str., (5) *E. quadriglume*, (6) *E. lucanoides conquistador*, (7) *E. dulcius*, (8) *E. mexicanum goianum*, (9) *E. vagans dispar*, (10) *E. drepanophorum*.

# PLATE 5

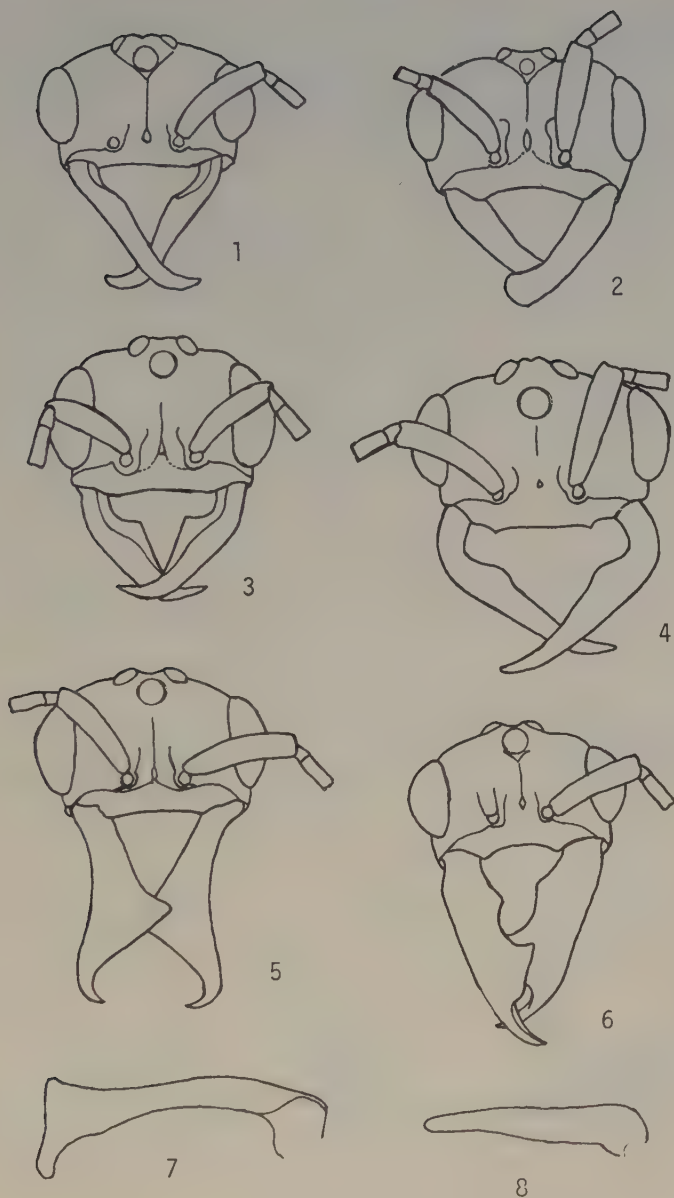


Plate 5. Fig. 1-6 males of (1) *Eciton burchelli parvispinum*, (2) *E. jansoni*, (3) *E. quadriglume*, (4) *E. dulcius*, (5) *E. uncinatum*, (6) *E. mexicanum morulum*. Fig. 7. sagitta of *E. burchelli* s. str. Fig. 8 volsella of *E. burchelli foreli*.

# PLATE 6

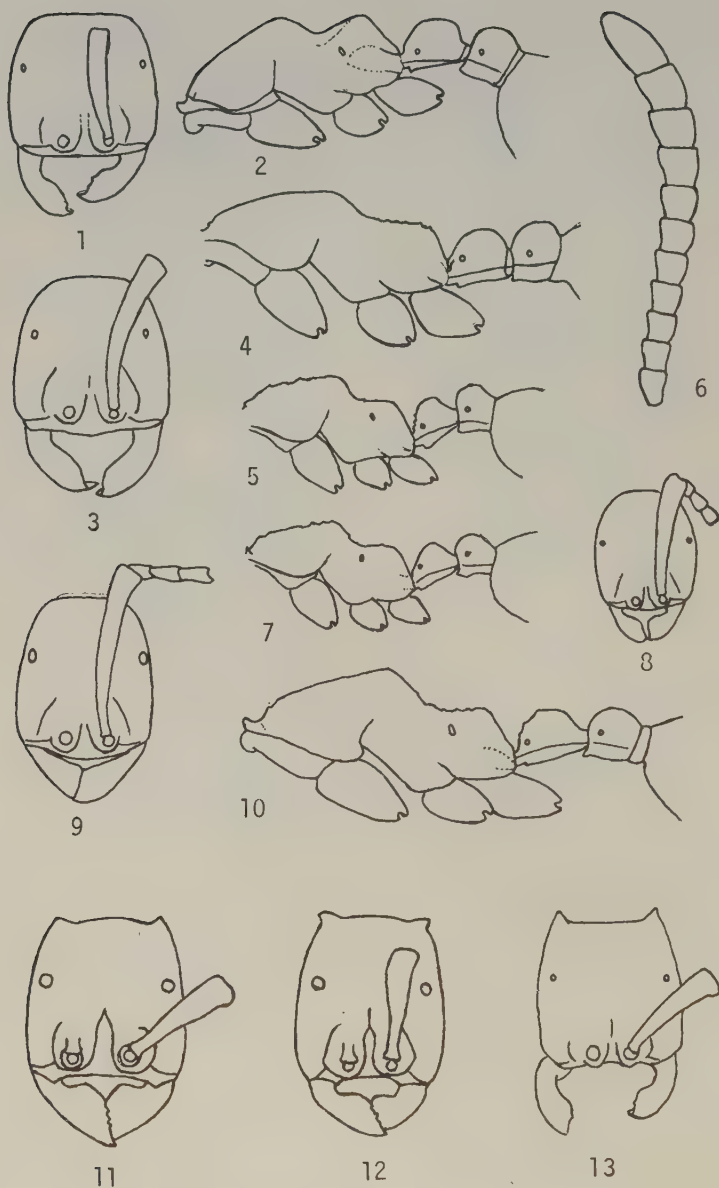


Plate 6. Fig. 1-13 major workers of (1-2) *Neivamyrmex legionis*, (3-4) *N. pseudops*, (5-6) *N. gradualis*, (7-8) *N. cristatus*, (9-10) *N. gibbatus*, (11) *N. texanus*, (12) *N. nigrescens*, (13) *N. sumichrasti*.

# PLATE 7

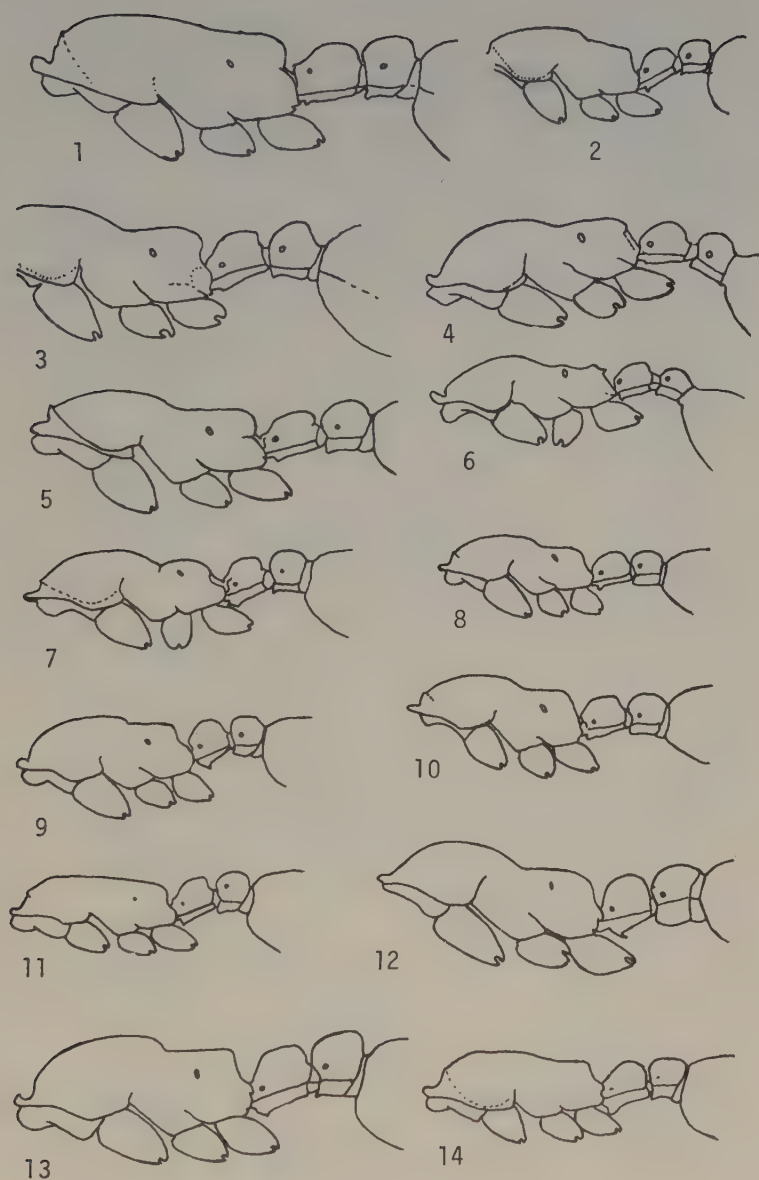


Plate 7. Fig. 1-14 major workers of (1) *Neivamyrmex emersoni*, (2) *N. compressinodis*, (3) *N. iridescens*, (4) *N. diana*, (5) *N. alfaroi*, (6) *N. postcarinatus*, (7) *N. adnepos*, (8) *N. raptans*, (9) *N. densepunctatus*, (10) *N. hetschkoi*, (11) *N. orthonotus*, (12) *N. pilosus*, (13) *N. postangustatus*, (14) *N. carettei*.

# PLATE 8

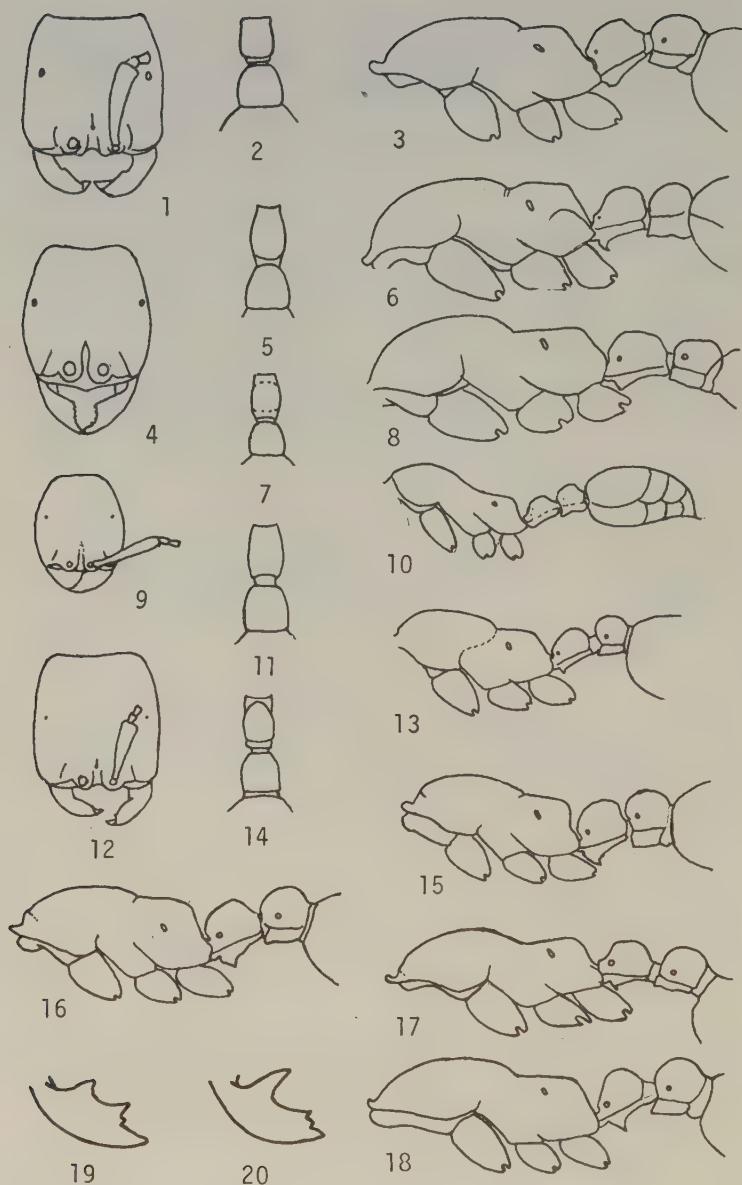


Plate 8. Fig. 1-20 major workers of (1,3) *Neivamyrmex rugulosus*, (2) *N. raptans*, (4-6) *N. laevigatus*, (7, 12-13) *N. agilis*, (8) *N. goeldii*, (9-10) *N. humilis*, (11,18) *N. graciellae*, (14, 17) *N. impudens*, (15) *N. diversinodis*, (16) *N. d'orbignyi*, (19) mandible of *N. moseri*, (20) mandible of *N. macrodentatus*.

# PLATE 9

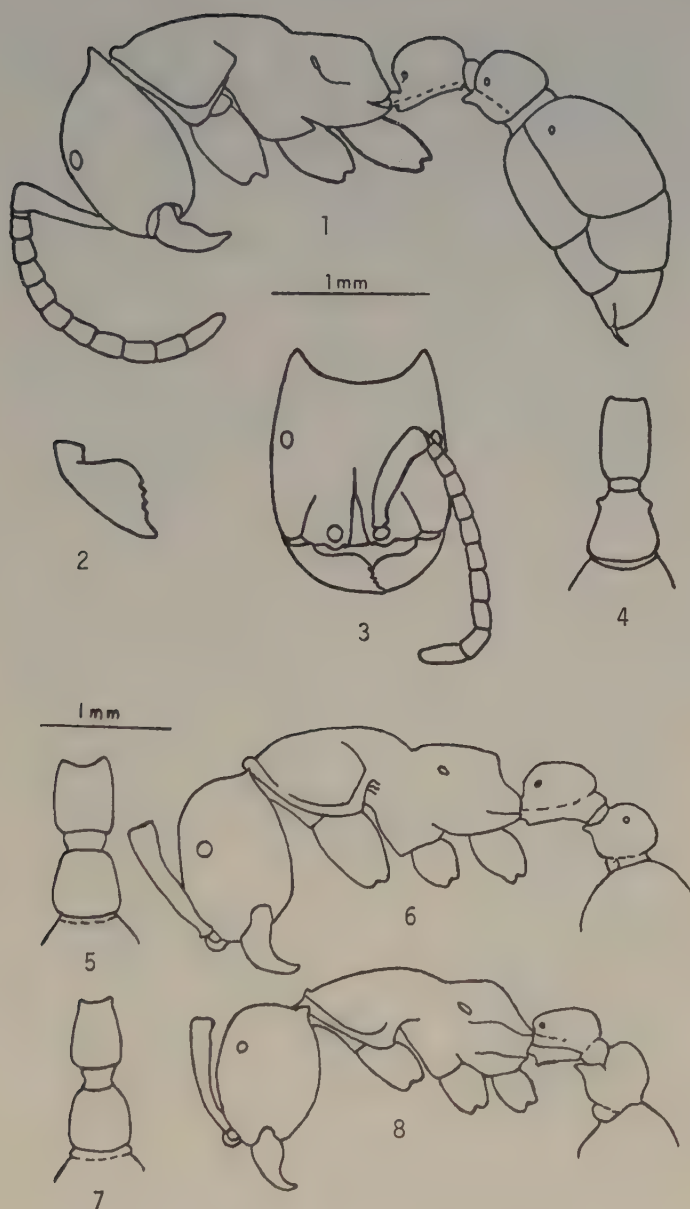


Plate 9. Fig. 1-8 major workers of (1-4) *Neivamyrmex cornutus*, (5-6) *N. texanus*, (7-8) *N. nigrescens*.

# PLATE 10

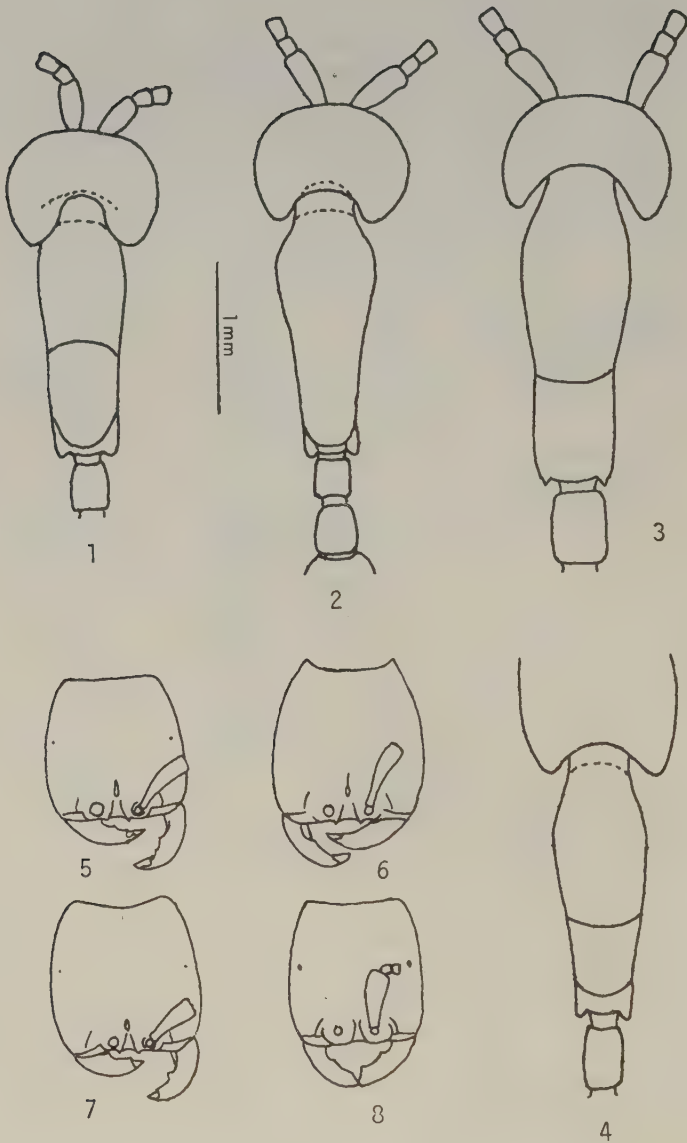


Plate 10. Fig. 1-8 major workers of (1) *Neivamyrmex pilosus mexicanus*, (2) *N. melanocephalus*, (3) *N. rugulosus*, (4) *N. manni*, (5) *N. nordenskiöldi*, (6) *N. pertyi*, (7) *N. fallax*, (8) *N. planidorsus*.

# PLATE 11

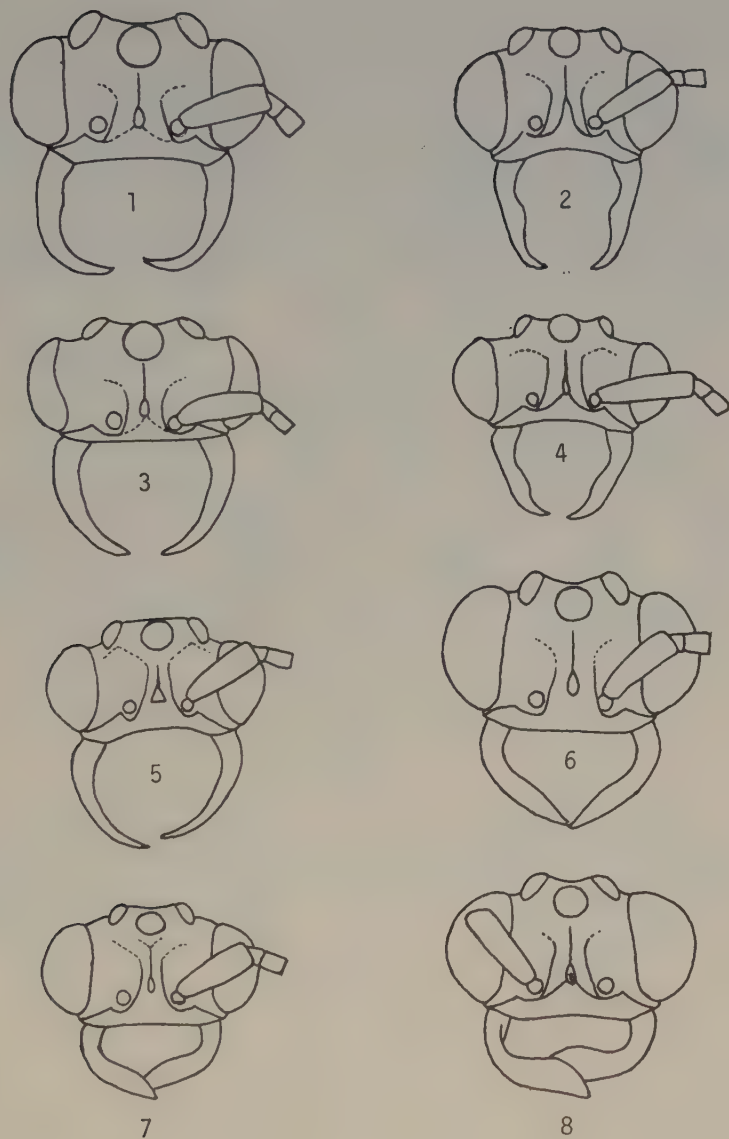


Plate 11. Fig. 1-8 males of (1) *Neivamyrmex halidayi*, (2) *N. pilosus mexicanus*, (3) *N. hopei*, (4) *N. pilosus s. str.*, (5) *N. latiscapus*, (6) *N. rosenbergi*, (7) *N. spatulatus*, (8) *N. diabolus*.

# PLATE 12

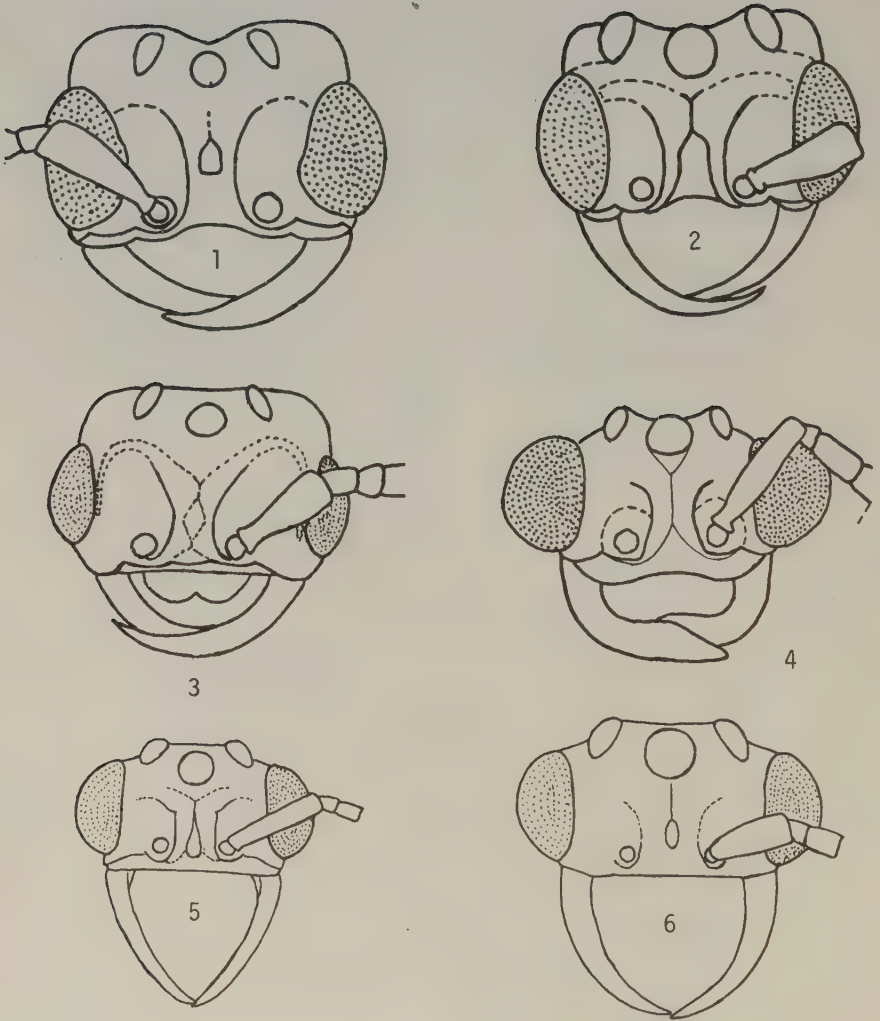


Plate 12. Fig. 1-6 males of (1) *Neivamyrmex digitistipus*, (2) *N. quadratoociputus*, (3) *N. baylori*, (4) *N. angulimandibulatus*, (5) *N. diana*, (6) *N. inca*.

# PLATE 13

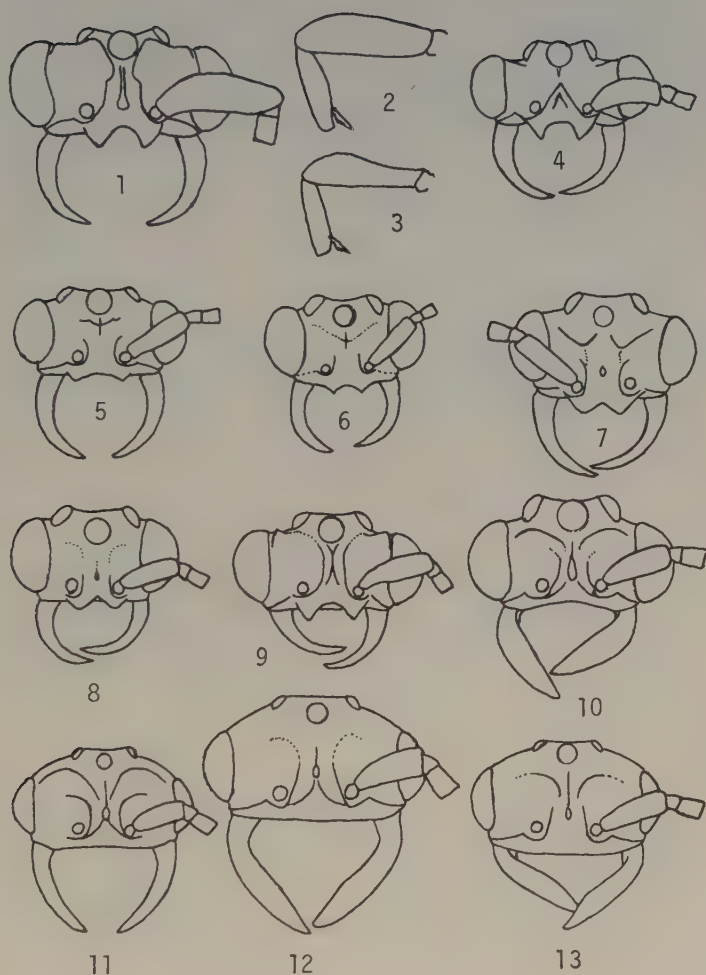


Plate 13. Fig. 1-13 males of (1,2: proleg) *Neivamyrmex guerini*, (3:proleg,4) *N. clavifemur*, (5) *N. klugi distans*, (6) *N. klugi s. str.*, (7) *N. planidens*, (8) *N. imbellis*, (9) *N. radoszkowskyi*, (10) *N. harrisi*, (11) *N. carolinensis*, (12) *N. nigrescens*, (13) *N. opacithorax*.

# PLATE 14

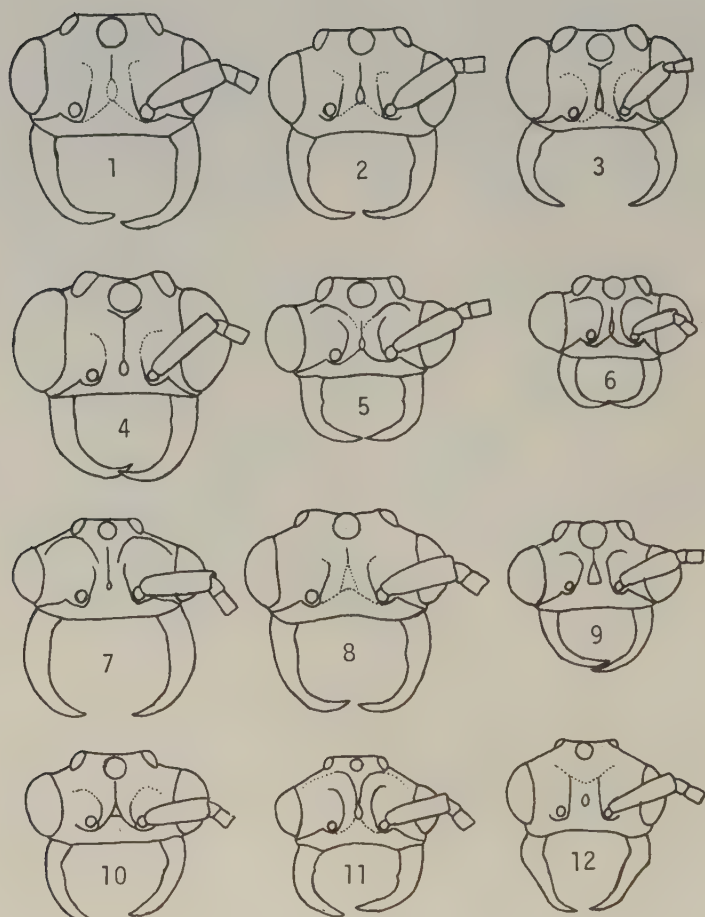


Plate 14. Fig. 1-12 males of (1-2) *Neivamyrmex spinolai*, (3) *N. walkeri*, (4) *N. detectus*, (5) *N. raptans*, (6) *N. lieselae*, (7) *N. d'orbignyi*, (8) *N. spinolai*, (9) *N. shuckardi*, (10) *N. micans*, (11) *N. hetschkoi*, (12) *N. humilis*.

# PLATE 15

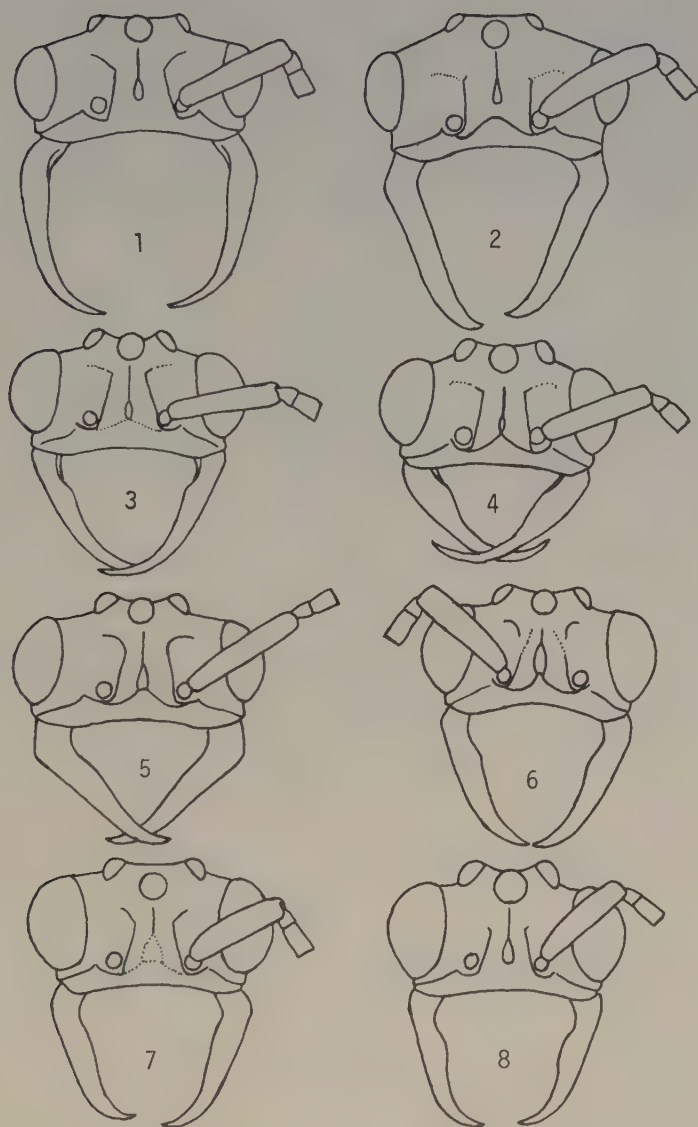


Plate 15. Fig. 1-8 males of (1) *Neivamyrmex legionis*, (2) *N. pseudops*, (3) *N. leptognathus*, (4) *N. physognathus*, (5) *N. maxillosum*, (6-7) *N. falciferus*, (8) *N. scutellaris*.

# PLATE 16

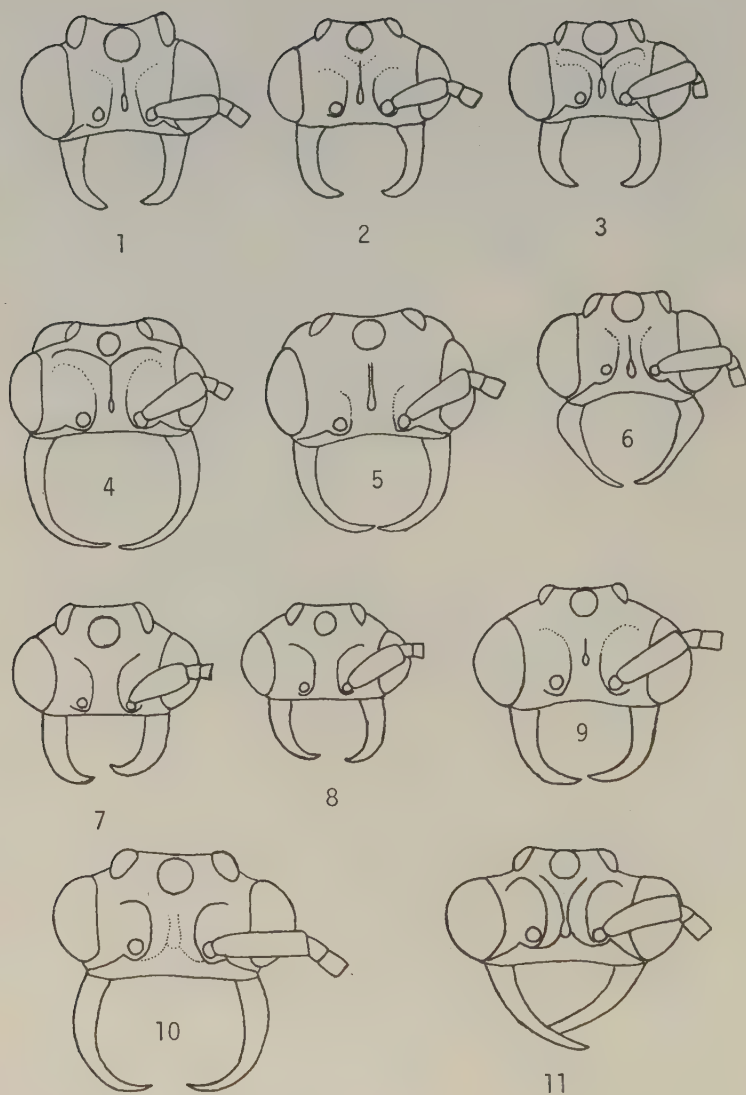


Plate 16. Fig. 1-11 males of (1) *Neivamyrmex romandi*, (2) *N. vicinus*, (3) *N. sulcatus*, (4) *N. spoliator*, (5) *N. fuscipennis*, (6) *N. cratensis*, (7) *N. tenuis*, (8) *N. perplexus*, (9) *N. genalis*, (10) *N. swainsoni*, (11) *N. guyanensis*.

# PLATE 17

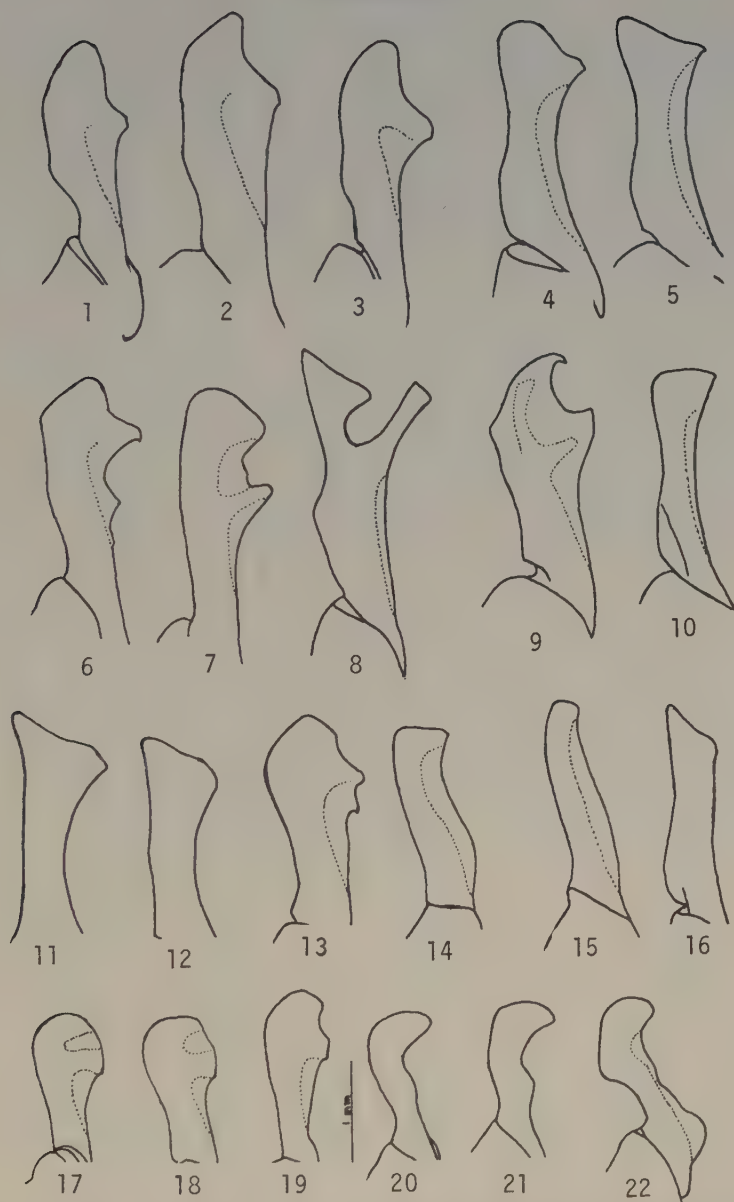


Plate 17. Fig. 1-22 stipites of (1,3) *Neivamyrmex pilosus mexicanus*, (2) *N. pilosus* subsp., (4) *N. rosenbergi*, (5) *N. diabolus*, (6) *N. pilosus* s. str., (7) *N. longiscapus*, (8) *N. andrei*, (9) *N. planidens*, (10) *N. spatulatus*, (11-12) *N. jerrmanni*, (13) *N. pertyi*, (14) *N. melsheimeri*, (15) *N. tristis*, (16) *N. carolinensis*, (17-19) *N. swainsoni*, (20-21) *N. hopei*, (22) *N. lieselae*.

# PLATE 18

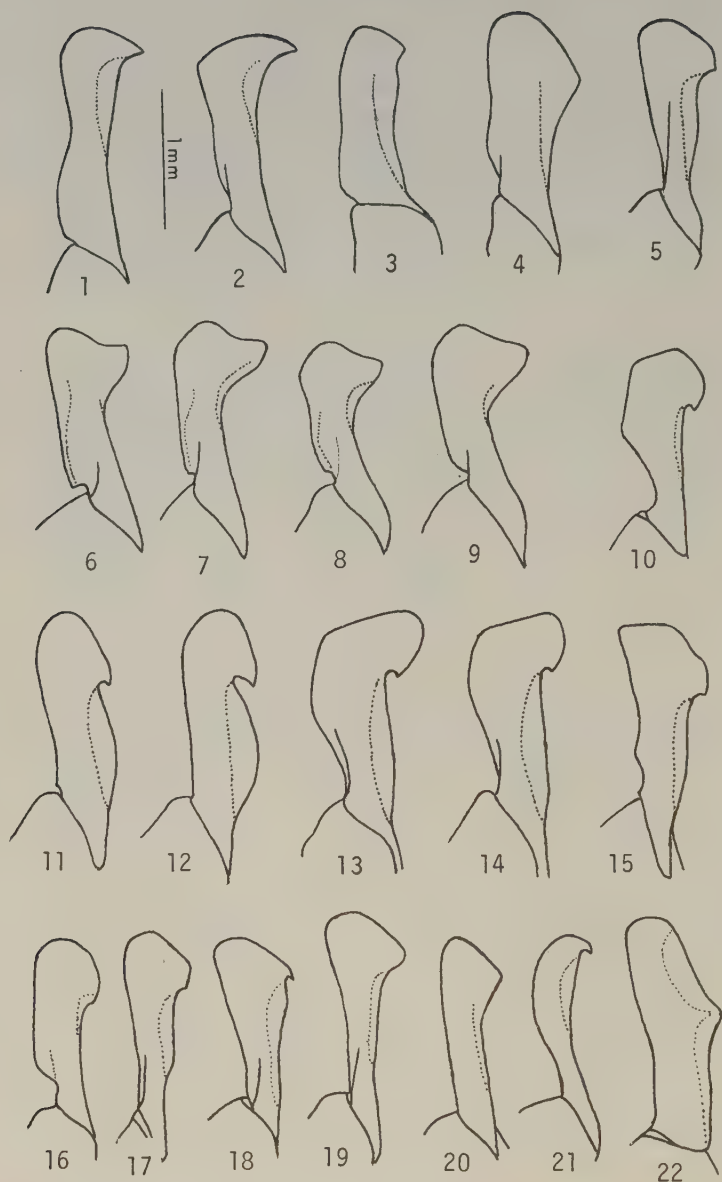


Plate 18. Fig. 1-22 stipes of (1) *Neivamyrmex piraticus*, (2) *N. erichsoni*, (3) *N. jberingi*, (4) *N. minor*, (5) *N. halidayi*, (6-7) *N. fumosus*, (8) *N. pullus*, (9) *N. foveolatus*, (10) *N. shuckardi*, (11) *N. hetschkoi*, (12) *N. raptans*, (13-14) *N. guyanensis*, (15) *N. walkeri*, (16) *N. d'orbignyi*, (17) *N. spinolai*, (18) *N. micans*, (19) *N. halidayi*, (20) *N. detectus*, (21) *N. latiscapus*, (22) *N. carinifrons*.

# PLATE 19

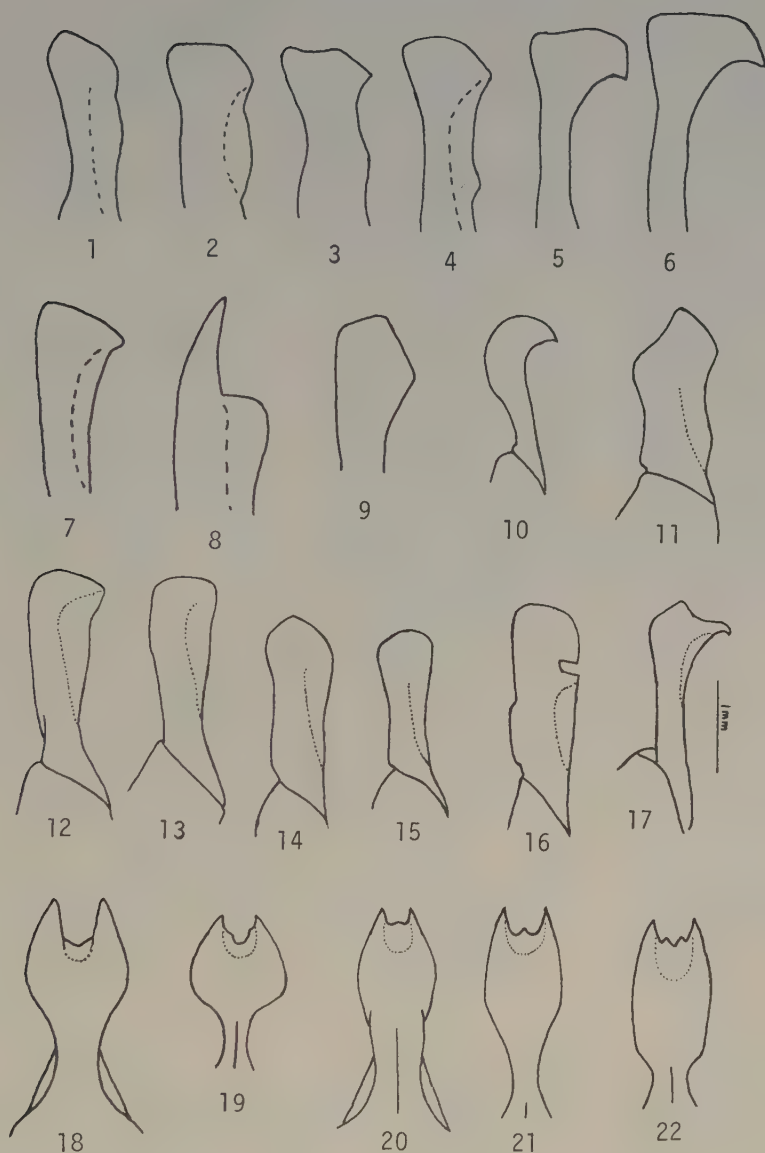


Plate 19. Fig. 1-17 stipites of (1) *Neivamyrmex opacithorax*, (2-4) *N. nigrescens*, (5-6) *N. texanus*, (7) *N. angulimandibulatus*, (8) *N. digitistipus*, (9) *N. baylora*, (10) *N. humilis*, (11) *N. cloosae*, (12-13) *N. romandi*, (14-15) *N. sulcatus*, (16) *N. radoszkowskyi*, (17) *N. cratensis*. Fig. 18-22 subgenital plates of (18) *N. jerrmani*, (19) *N. hopei*, (20) *N. carinifrons*, (21) *N. latiscapus*, (22) *N. spinolai*.

# PLATE 20

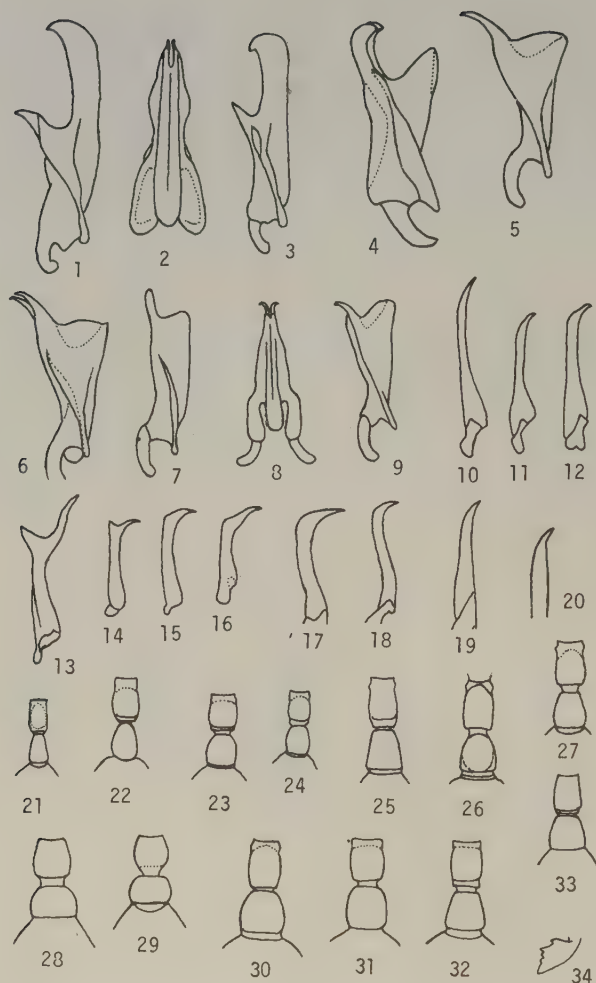


Plate 20. Fig. 1-9 sagittae of (1) *Neivamyrmex fuscipennis*, (2-3) *N. tristis*, (4) *N. jerrmanni*, (5) *N. inca*, (6) *N. pertyi*, (7) *N. spinolai*, (8-9) *N. swainsoni*. Fig. 10-20 volsellae of (10) *N. genalis*, (11) *N. romandi*, (12) *N. vicinus*, (13) *N. macropterus*, (14-15) *N. swainsoni*, (16) *N. cloosae*, (17) *N. diabolus*, (18) *N. diana*, (19) *N. guyanensis*, (20) *N. baylora*. Fig. 21-33 petioles and postpetioles of major workers of (21) *N. compressinodis*, (22) *N. angustinodis*, (23-24) *N. modestus*, (25) *N. alfaroi*, (26) *N. iridescens*, (27) *N. balzani*, (28) *N. antillanus*, (29) *N. leonardi*, (30) *N. postangustatus*, (31) *N. hetschkoi*, (32) *N. minensis*, (33) *N. bohlsi*. Fig. 34 mandible of major worker of *N. pauxillus*.

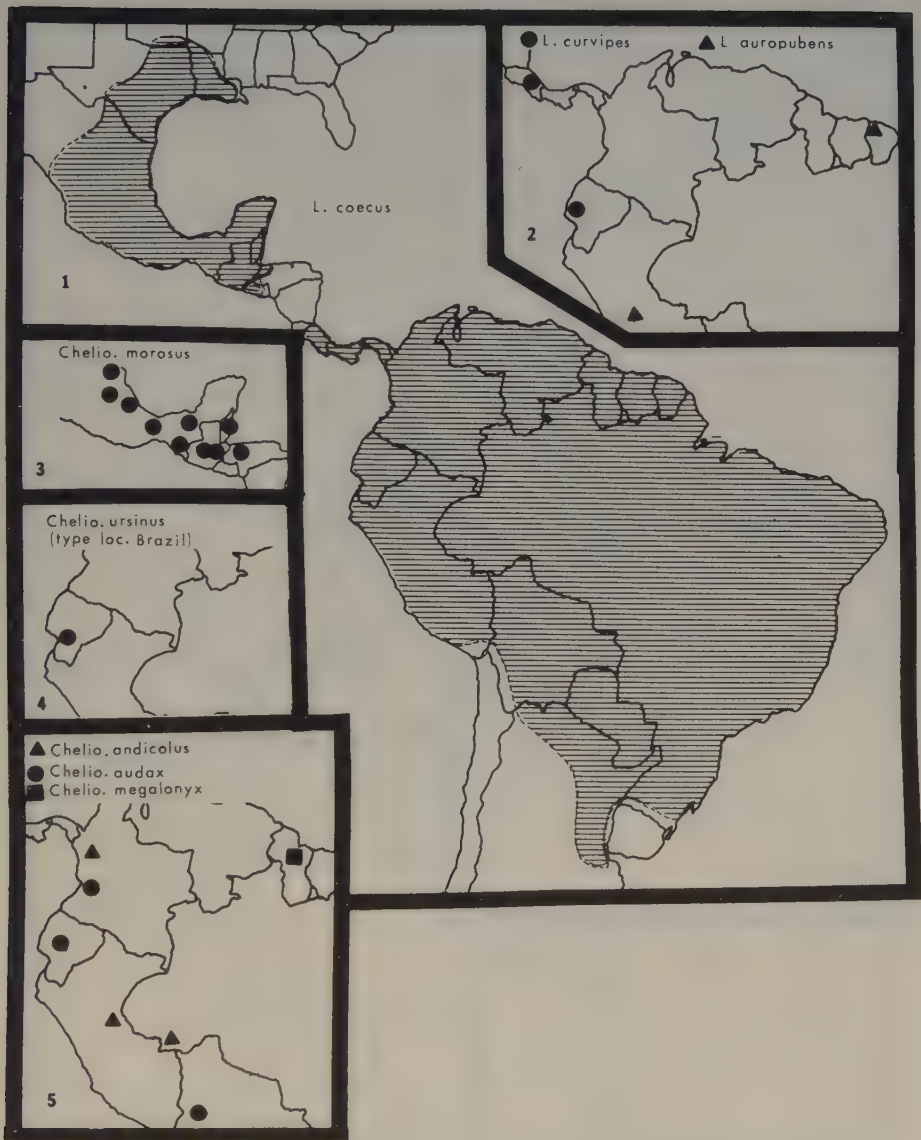
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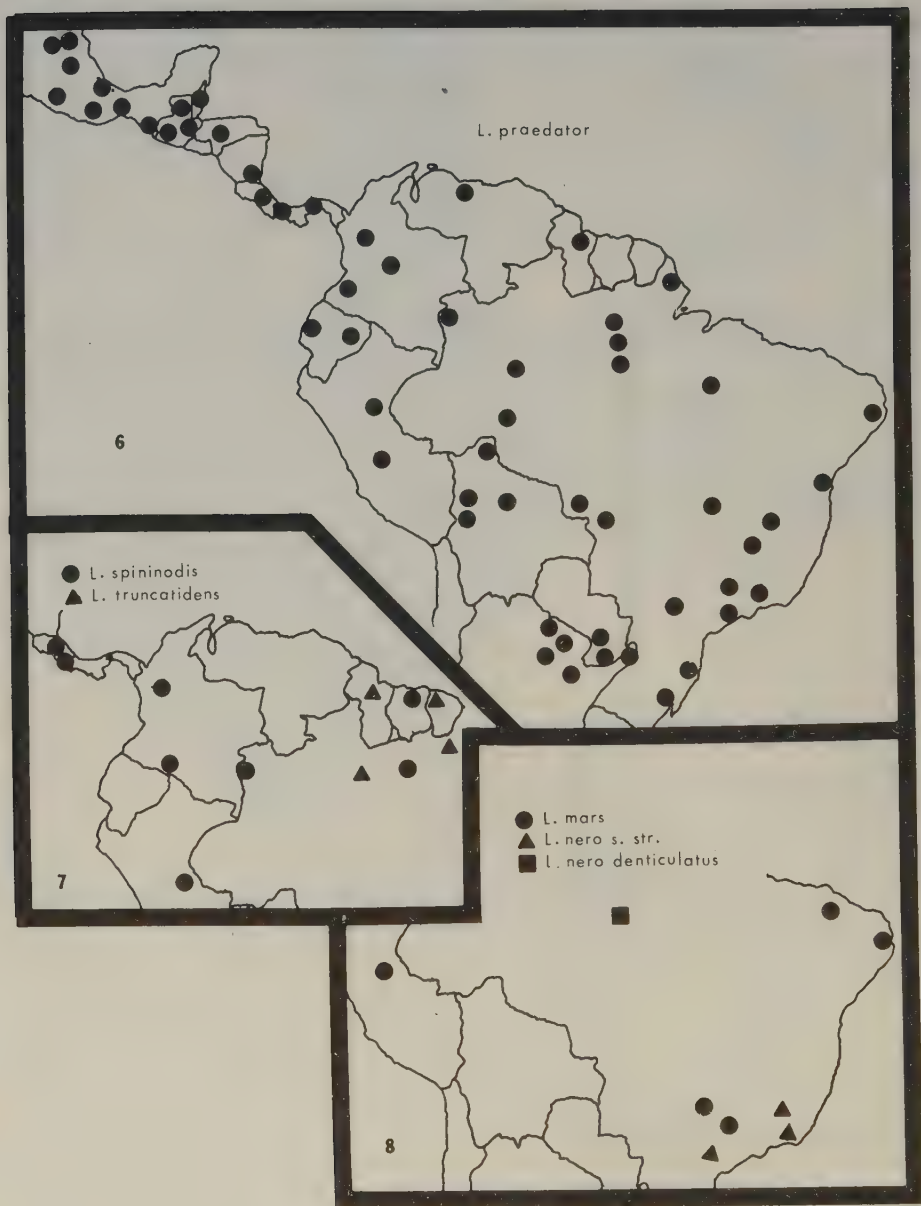
- |  |                                   |                              |
|--|-----------------------------------|------------------------------|
| <i>Cheliomyrmex</i>                    | <i>L. coecus</i> (1)              | <i>N. d'orbignyi</i> (80)    |
| <i>C. andicolus</i> (5)                | <i>L. curvipes</i> (2)            | <i>N. emersoni</i> (88)      |
| <i>C. audax</i> (5)                    | <i>L. mars</i> (8)                | <i>N. emeryi</i> (69)        |
| <i>C. megalonyx</i> (5)                | <i>L. nero s.str.</i> (8)         | <i>N. erichsoni</i> (102)    |
| <i>C. morosus</i> (3)                  | <i>L. nero denticulatus</i> (8)   | <i>N. falciferus</i> (73)    |
| <i>C. ursinus</i> (4)                  | <i>L. praedator s.lat.</i> (6)    | <i>N. fallax</i> (58)        |
|  | <i>L. spininodis</i> (7)          | <i>N. foveolatus</i> (51)    |
|  | <i>L. truncatidens</i> (7)        | <i>N. fumosus</i> (52)       |
| <i>Eciton</i>                          |                                   | <i>N. fuscipennis</i> (44)   |
| <i>E. burchelli s.str.</i> (15)        |                                   | <i>N. genalis</i> (97)       |
| <i>E. burchelli cupiens</i> (17)       | <i>Neivamyrmex</i>                | <i>N. gibbatus</i> (109)     |
| <i>E. burchelli foreli</i> (14)        | <i>N. sp. a</i> (68)              | <i>N. goeldii</i> (67)       |
| <i>E. burchelli parvispinum</i> (13)   | <i>N. adnepos</i> (100)           | <i>N. graciellae</i> (50)    |
| <i>E. burchelli urichi</i> (14)        | <i>N. agilis</i> (60)             | <i>N. gracilis</i> (96)      |
| <i>E. drepanophorum</i> (16)           | <i>N. alfaroi</i> (104)           | <i>N. gradualis</i> (72)     |
| <i>E. dulcius s.str.</i> (24)          | <i>N. andrei</i> (55)             | <i>N. guerini</i> (108)      |
| <i>E. dulcius crassinode</i> (25)      | <i>N. angulimandibulatus</i> (42) | <i>N. guyanensis</i> (89)    |
| <i>E. hamatum</i> (27)                 | <i>N. angustinodis</i> (83)       | <i>N. halidayi</i> (74)      |
| <i>E. jansoni</i> (26)                 | <i>N. antillanus</i> (59)         | <i>N. harrisi</i> (34)       |
| <i>E. lucanoides s.str.</i> (31)       | <i>N. asper</i> (40)              | <i>N. hetschkoi</i> (84)     |
| <i>E. lucanoides conquistador</i> (31) | <i>N. sp. b</i> (79)              | <i>N. hopei</i> (92)         |
| <i>E. mexicanum s.lat.</i> (29)        | <i>N. balzani</i> (101)           | <i>N. humilis</i> (63)       |
| <i>E. mexicanum s.str.</i> (28)        | <i>N. baylori</i> (47)            | <i>N. imbellis</i> (90)      |
| <i>E. mexicanum argentinum</i> (30)    | <i>N. bohlsi</i> (101)            | <i>N. impudens</i> (60)      |
| <i>E. mexicanum goianum</i> (30)       | <i>N. bruchi</i> (77)             | <i>N. inca</i> (68)          |
| <i>E. mexicanum latidens</i> (30)      | <i>N. bureni</i> (110)            | <i>N. iridescens</i> (104)   |
| <i>E. mexicanum morulum</i> (28)       | <i>N. californicus</i> (32)       | <i>N. jerrmanni</i> (68)     |
| <i>E. mexicanum panamense</i> (28)     | <i>N. carettei</i> (103)          | <i>N. jheringi</i> (102)     |
| <i>E. quadriglume</i> (22)             | <i>N. carinifrons</i> (99)        | <i>N. klugi s.str.</i> (94)  |
| <i>E. rapax</i> (23)                   | <i>N. carolinensis</i> (41)       | <i>N. klugi distans</i> (94) |
| <i>E. setigaster</i> (31)              | <i>N. clavifemur</i> (96)         | <i>N. kuertii</i> (110)      |
| <i>E. uncinatum</i> (26)               | <i>N. cloosae</i> (46)            | <i>N. laevigatus</i> (66)    |
| <i>E. vagans s.str.</i> (21)           | <i>N. compressinodis</i> (88)     | <i>N. latiscapus</i> (91)    |
| <i>E. vagans allogenathum</i> (19)     | <i>N. cornutus</i> (105)          | <i>N. legionis</i> (111)     |
| <i>E. vagans angustatum</i> (18)       | <i>N. cratensis</i> (66)          | <i>N. leonardi</i> (56)      |
| <i>E. vagans dispar</i> (20)           | <i>N. cristatus</i> (72)          | <i>N. leptognathus</i> (109) |
| <i>E. vagans dubitatum</i> (21)        | <i>N. densepunctatus</i> (79)     | <i>N. lieselae</i> (99)      |
| <i>E. vagans fur</i> (21)              | <i>N. detectus</i> (77)           | <i>N. longiscapus</i> (50)   |
| <i>E. vagans mutatum</i> (19)          | <i>N. diabolus</i> (43)           | <i>N. macrodentatus</i> (57) |
|  | <i>N. diana</i> (65)              | <i>N. macropterus</i> (44)   |
| <i>Labidus</i>                         | <i>N. digitistipus</i> (46)       | <i>N. manni</i> (36)         |
| <i>L. auropubens</i> (2)               | <i>N. diversinodis</i> (81)       |                              |

<i>N. maxillosus</i> (71)	<i>N. pilosus s.str.</i> (62)	<i>N. scutellaris</i> (73)
<i>N. melanocephalus</i> (64)	<i>N. pilosus beebei</i> (62)	<i>N. shuckardi</i> (106)
<i>N. melsheimeri</i> (45)	<i>N. pilosus mandibularis</i> (61)	<i>N. spatulatus</i> (43)
<i>N. mexicanus</i> (110)	<i>N. pilosus mexicanus</i> (61)	<i>N. spinolai</i> (78)
<i>N. micans</i> (86)	<i>N. pilosus subsp.</i> (62)	<i>N. spoliator</i> (49)
<i>N. microps</i> (47)	<i>N. piraticus</i> (93)	<i>N. sulcatus</i> (107)
<i>N. minensis</i> (82)	<i>N. planidens</i> (90)	<i>N. sumichrasti</i> (37)
<i>N. minor</i> (51)	<i>N. planidorsus</i> (75)	<i>N. swainsoni</i> (54)
<i>N. modestus</i> (83)	<i>N. postangustatus</i> (85)	<i>N. tenuis</i> (97)
<i>N. mojave</i> (47)	<i>N. postcarinatus</i> (64)	<i>N. texanus</i> (35)
<i>N. moseri</i> (57)	<i>N. pseudops</i> (71)	<i>N. tristis</i> (48)
<i>N. nigrescens</i> (33)	<i>N. puerulus</i> (87)	<i>N. vicinus</i> (98)
<i>N. nordenskiöldi</i> (70)	<i>N. pulchellus</i> (90)	<i>N. walkeri</i> (76)
<i>N. opacithorax</i> (39)	<i>N. pullus</i> (53)	
<i>N. orthonotus</i> (100)	<i>N. quadratoocciputus</i> (44)	<i>Nomamyrmex</i>
<i>N. pacificus</i> (82)	<i>N. radoszkowskyi</i> (87)	<i>Noma. esenbecki s.str.</i> (12)
<i>N. pauxillus</i> (38)	<i>N. raptans</i> (86)	<i>Noma. esenbecki crassicornis</i> (11)
<i>N. perplexus</i> (98)	<i>N. romandi</i> (95)	<i>Noma. esenbecki n. subsp.</i> (10)
<i>N. pertyi</i> (70)	<i>N. rosenbergi</i> (42)	<i>Noma. esenbecki wilsoni</i> (10)
<i>N. physognathus</i> (111)	<i>N. rugulosus</i> (36)	<i>Noma. hartigi</i> (9)

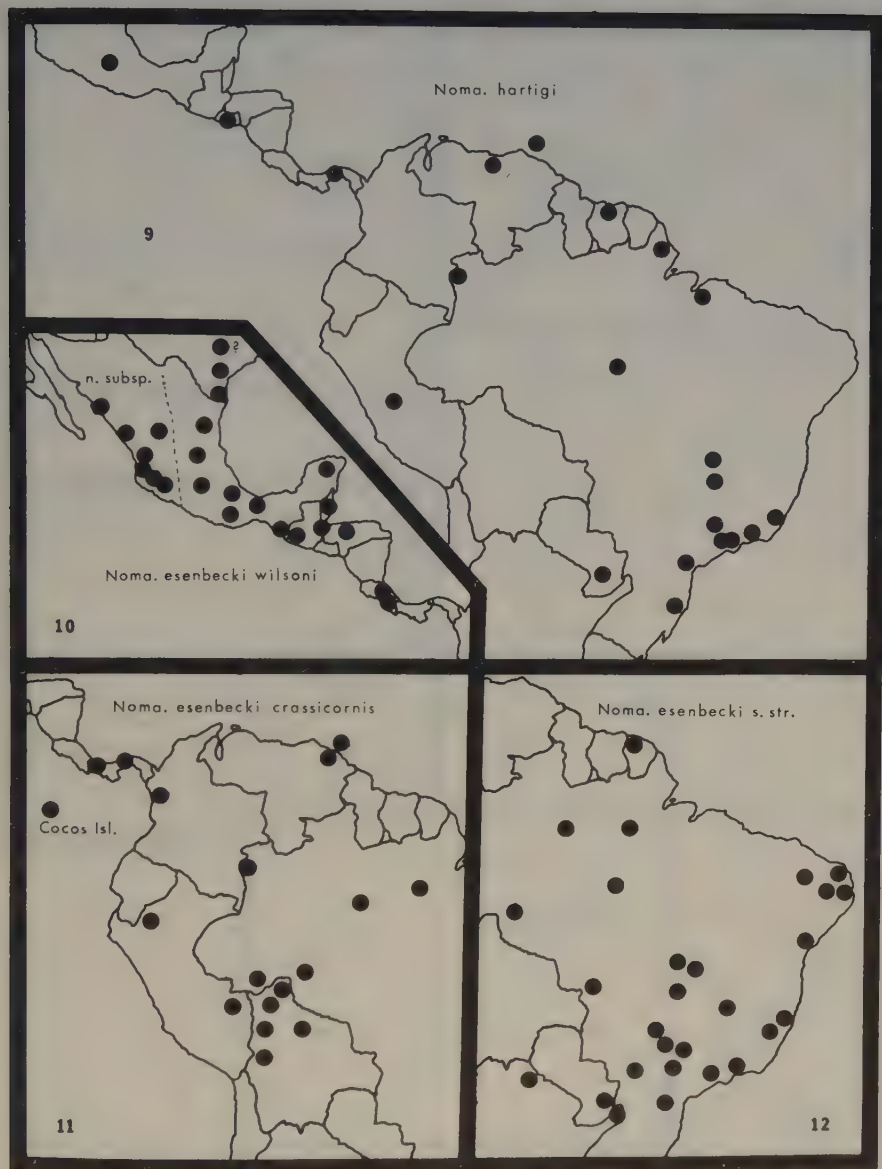
# MAPS 1-5



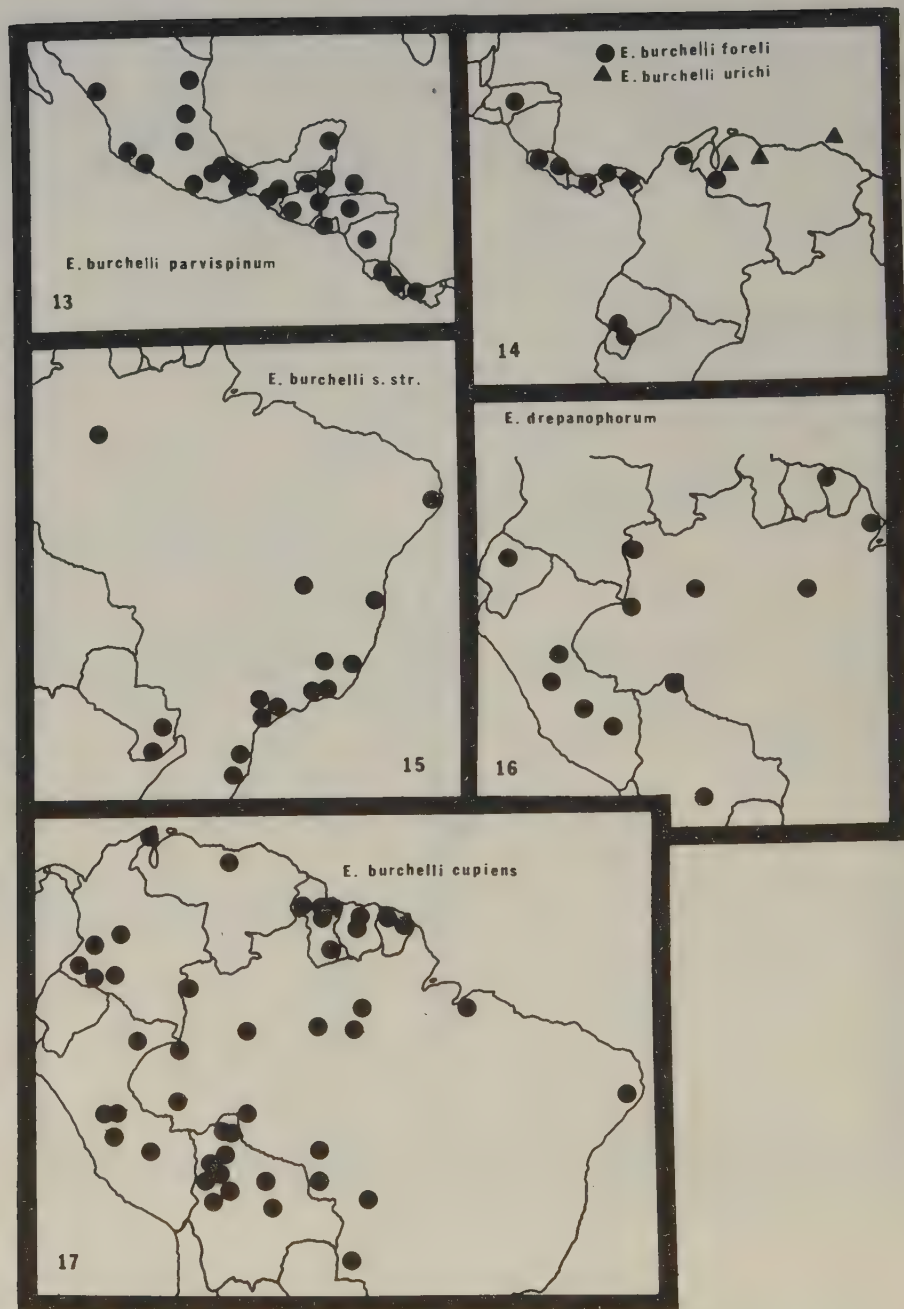
# MAPS 6-8



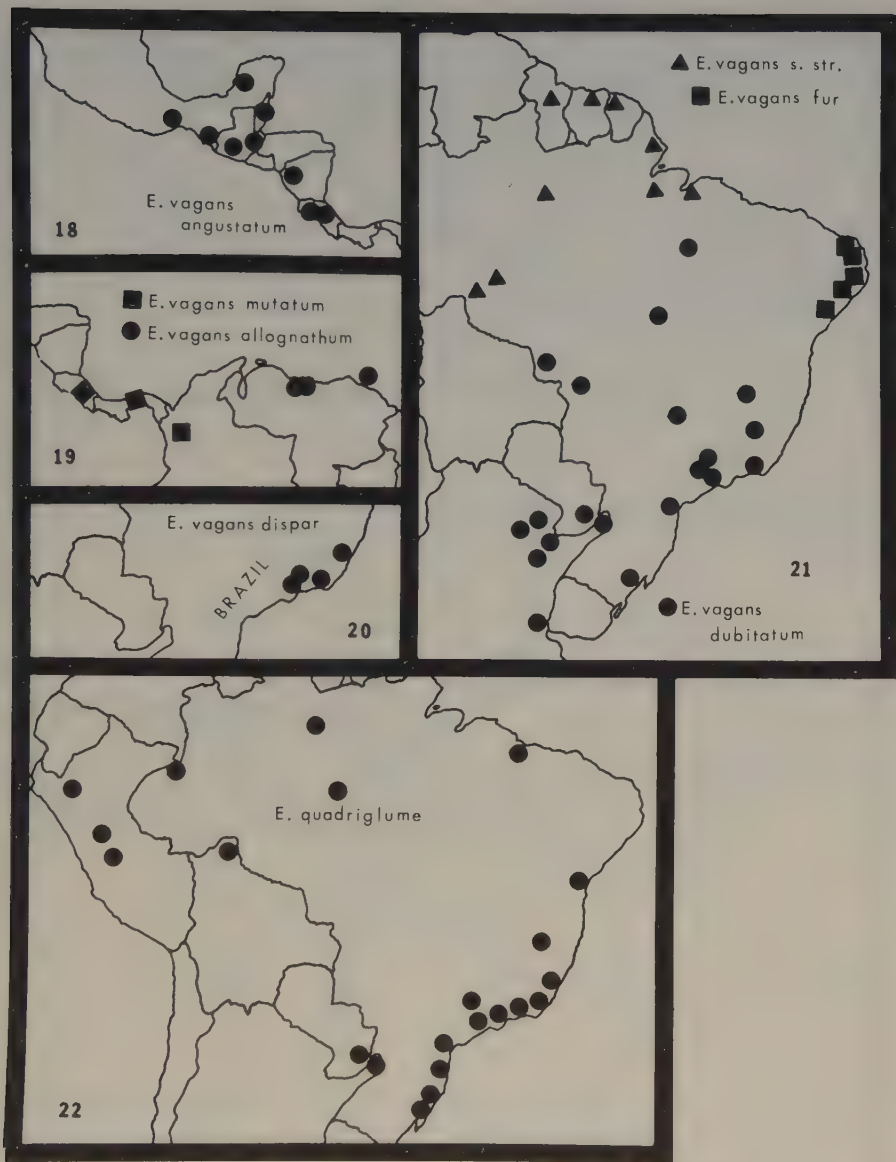
# MAPS 9-12



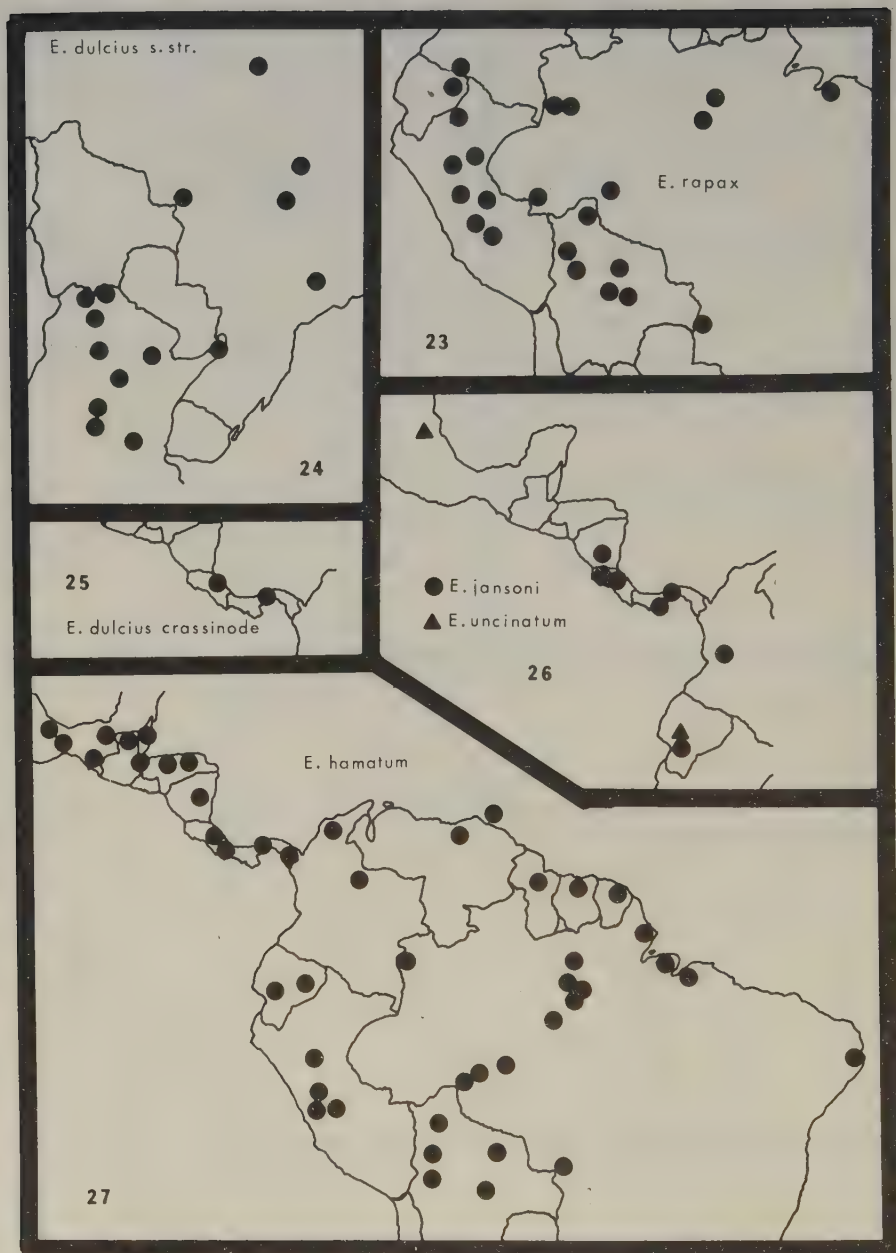
# MAPS 13-17



# MAPS 18-22



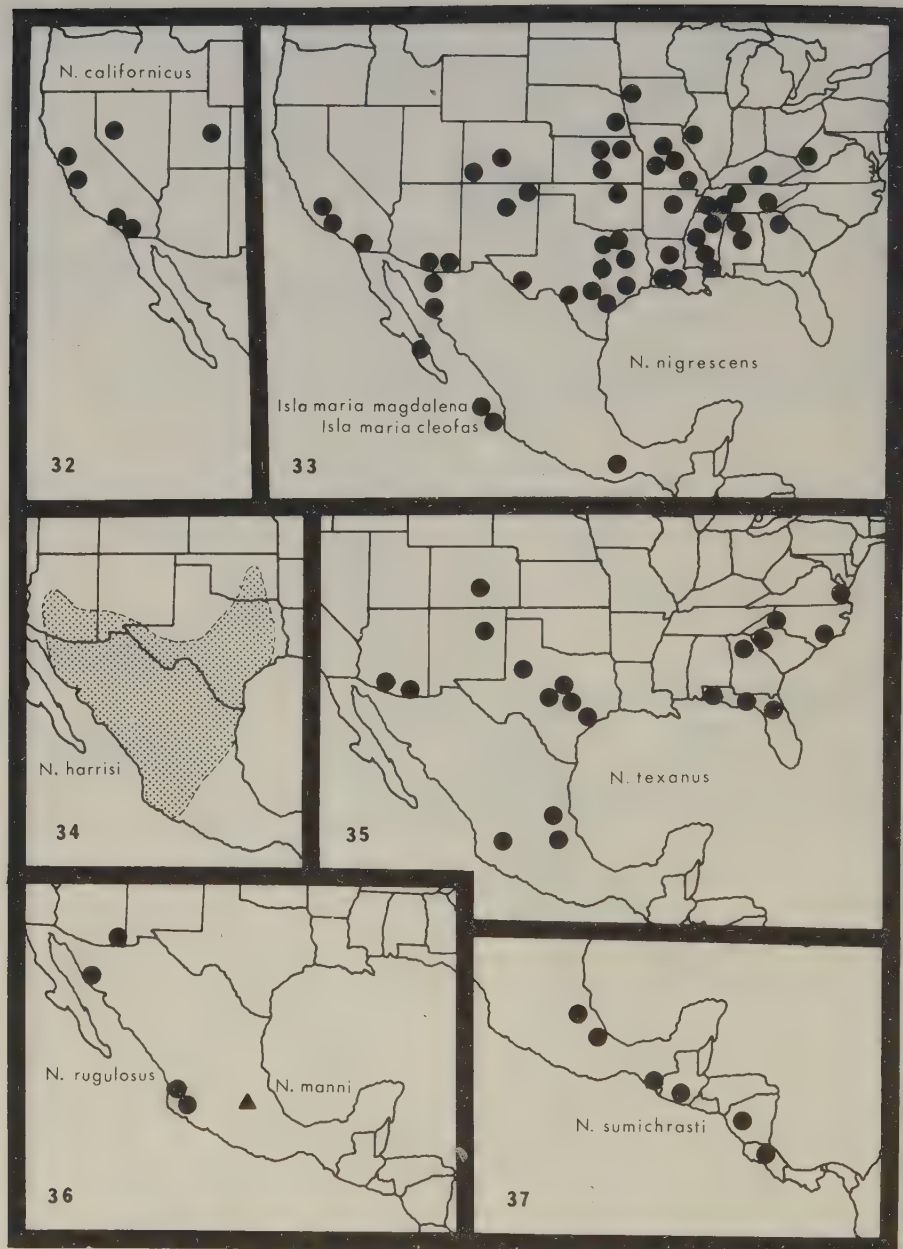
# MAPS 23-27



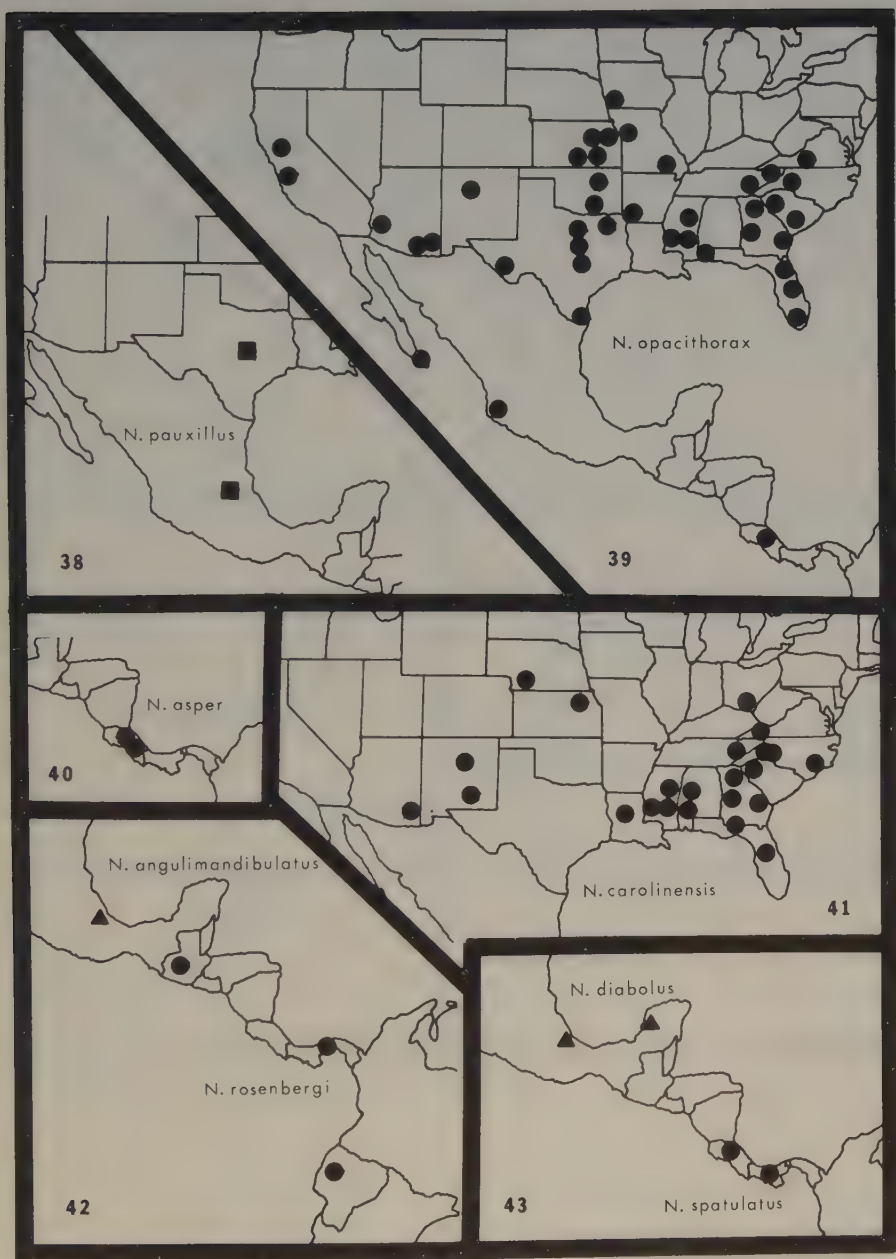
# MAPS 28-31



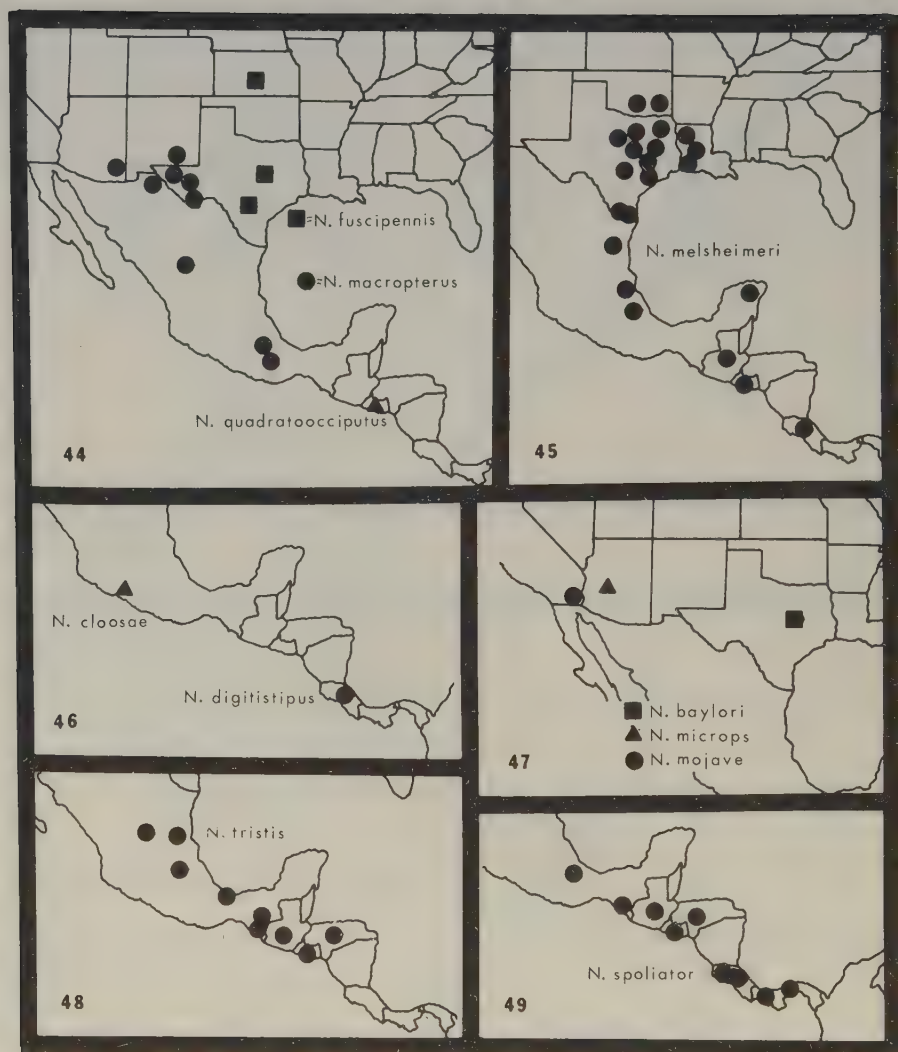
# MAPS 32-37



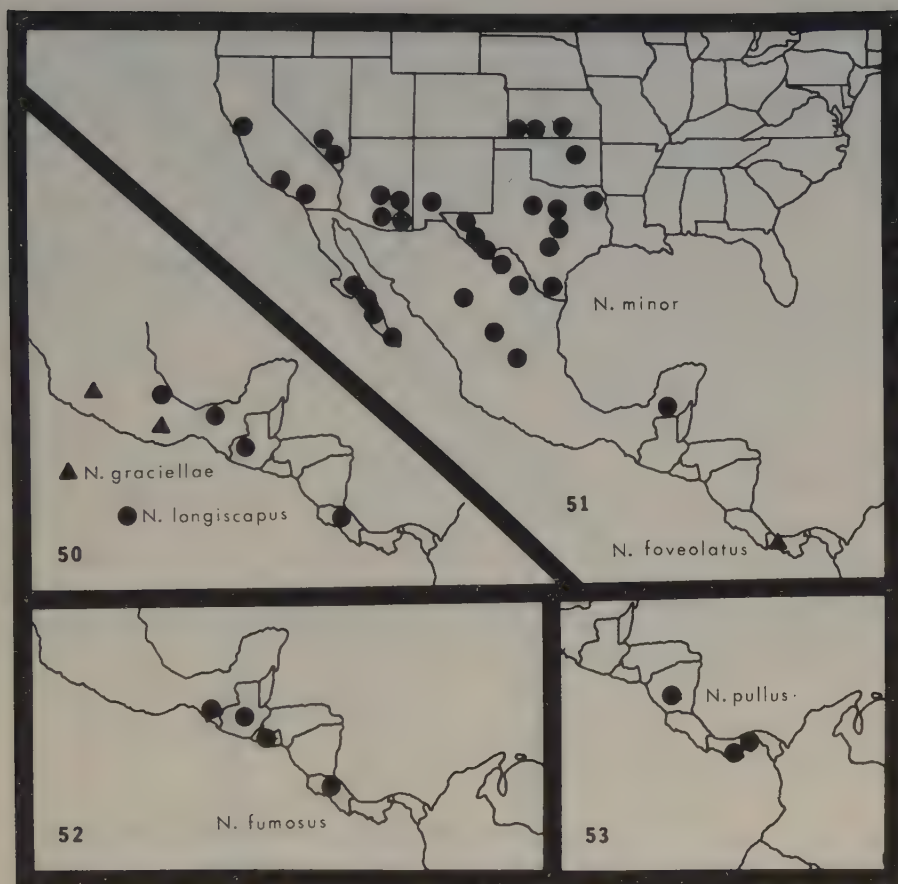
# MAPS 38-43



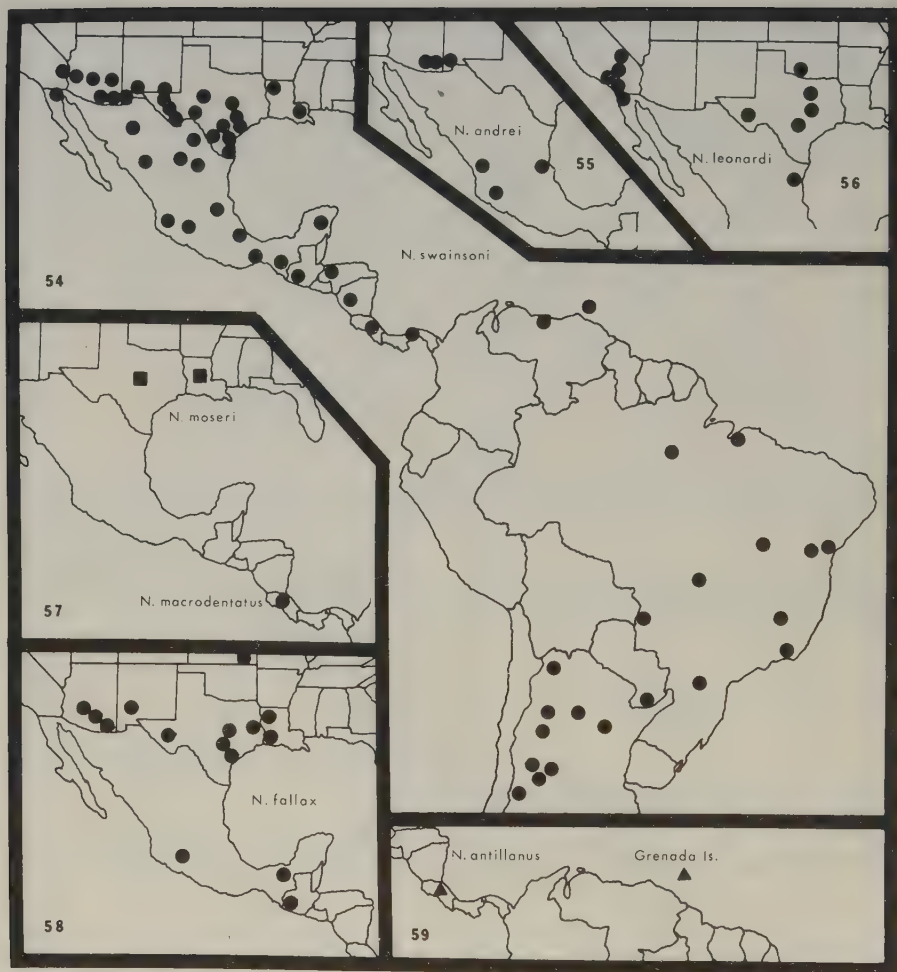
# MAPS 44-49



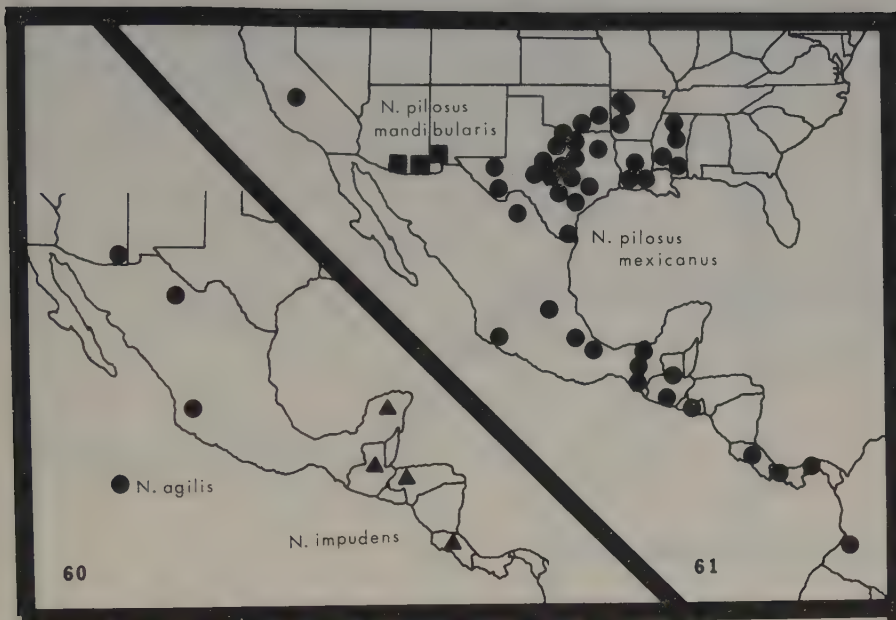
# MAPS 50-53



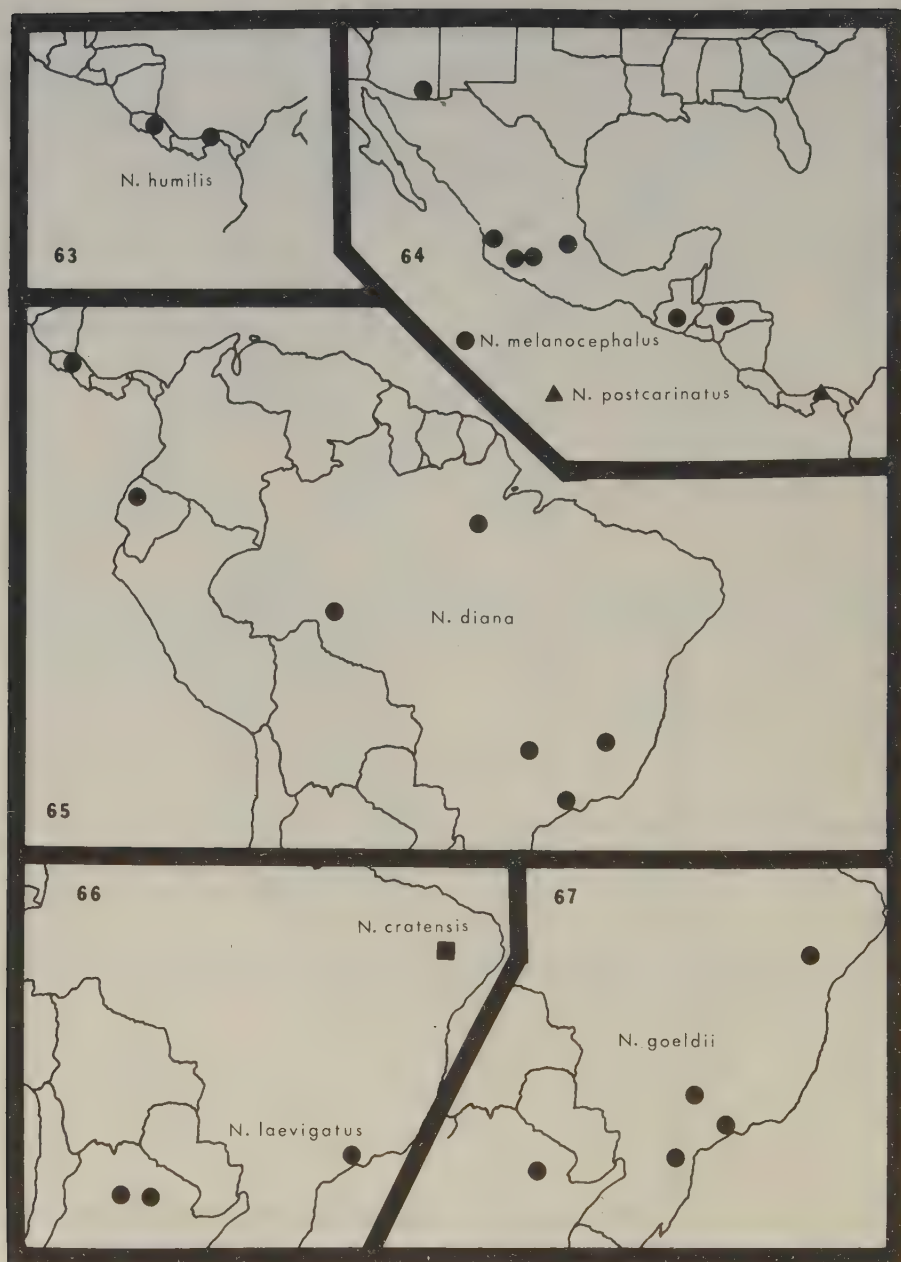
# MAPS 54-59



MAPS 60-62



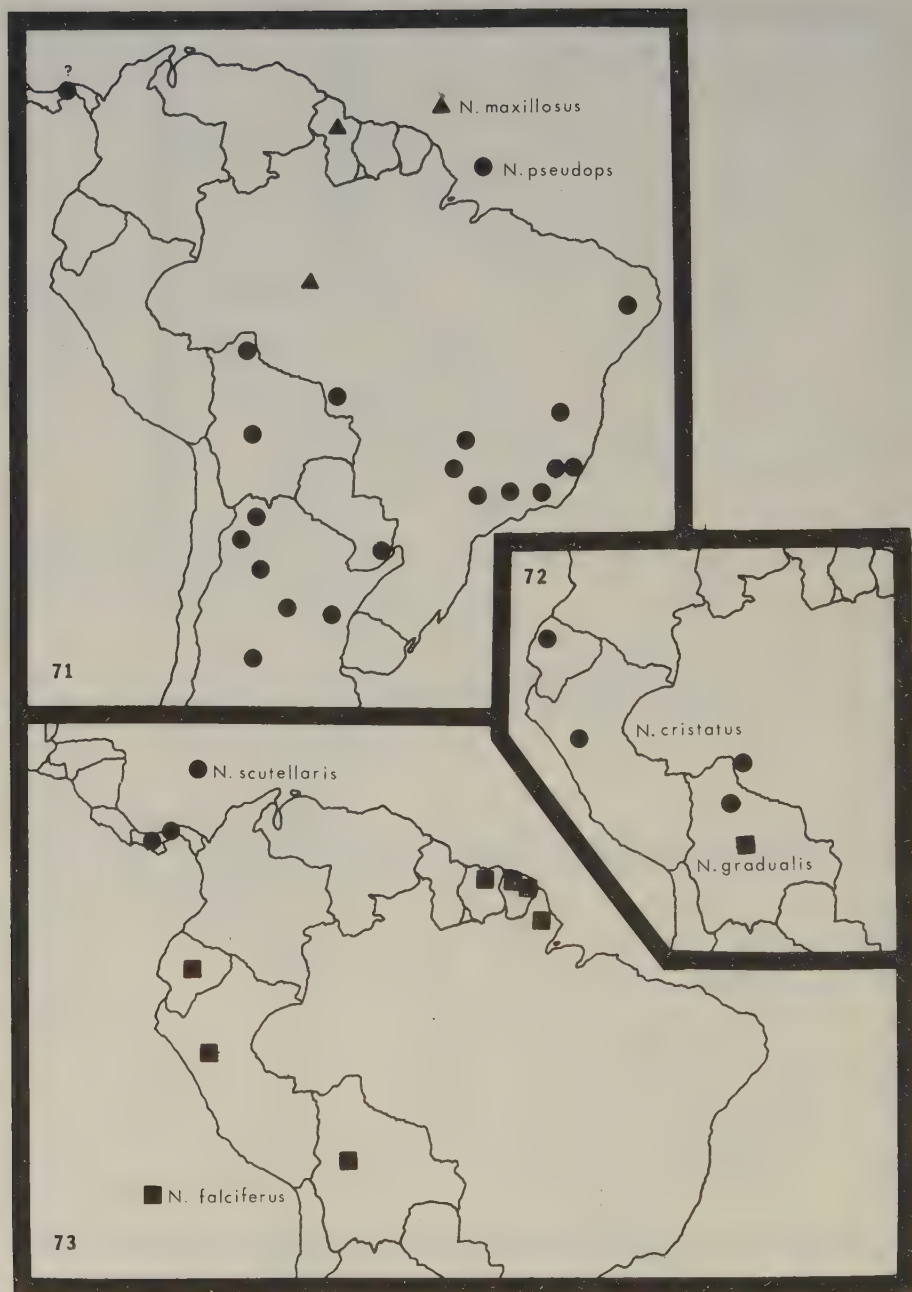
# MAPS 63-67



# MAPS 68-70



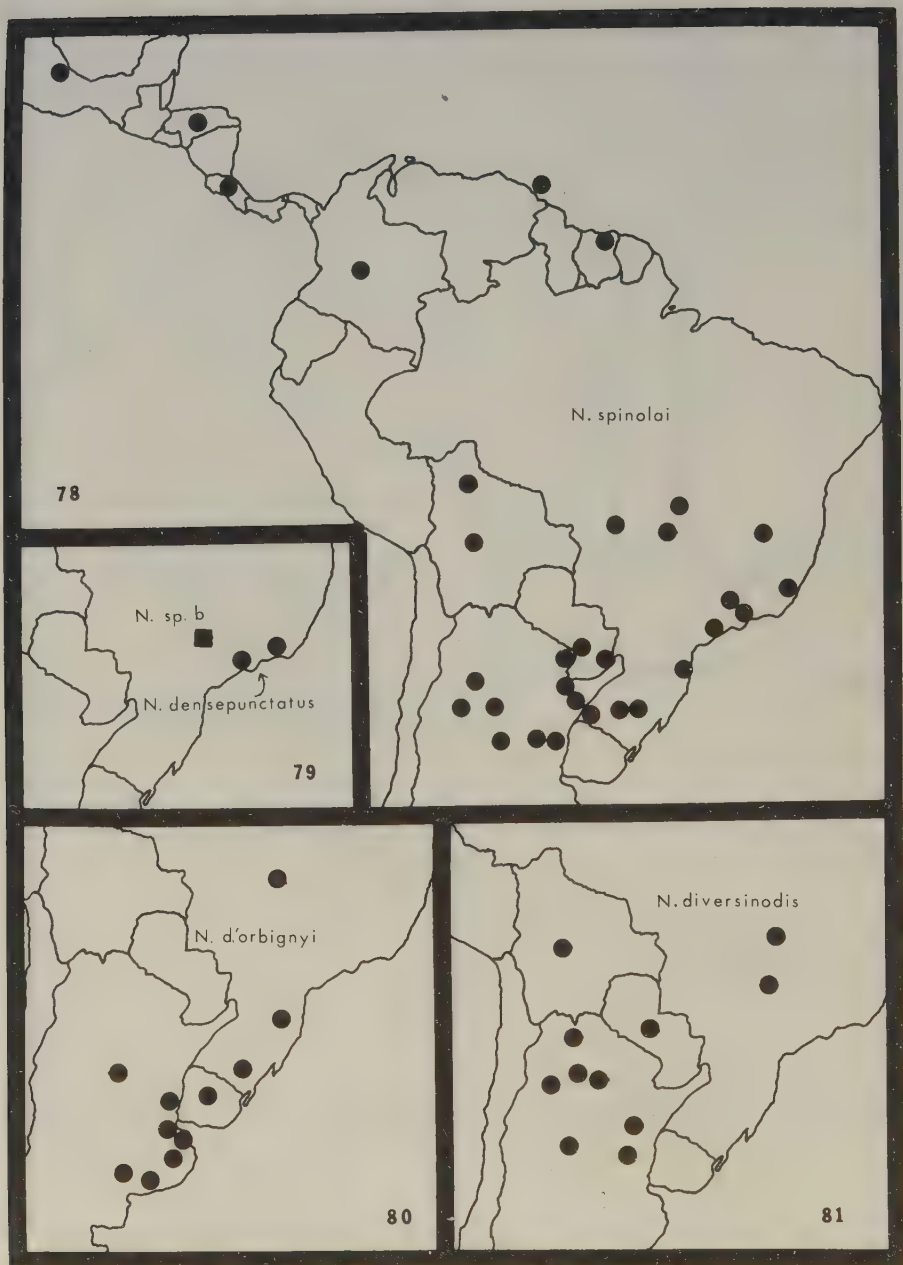
# MAPS 71-73



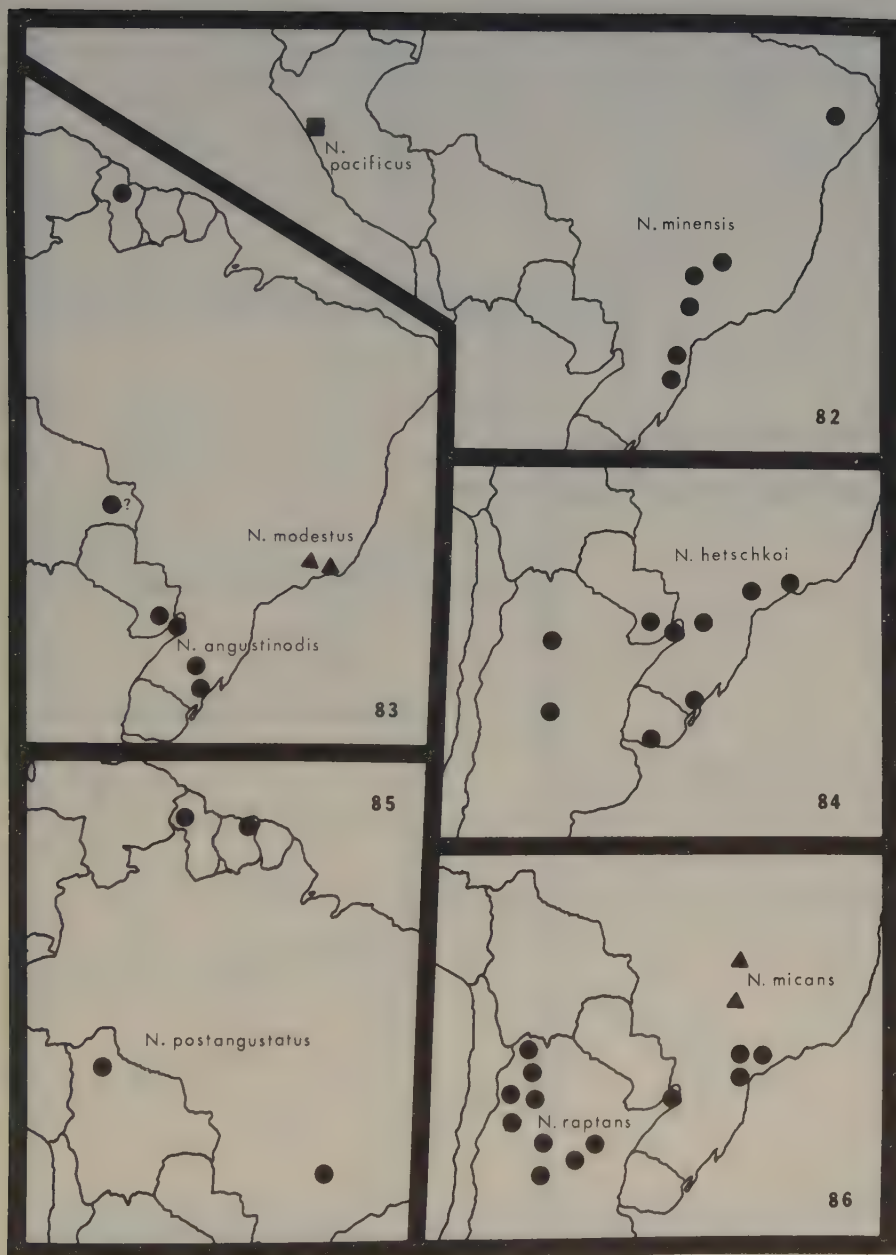
# MAPS 74-77



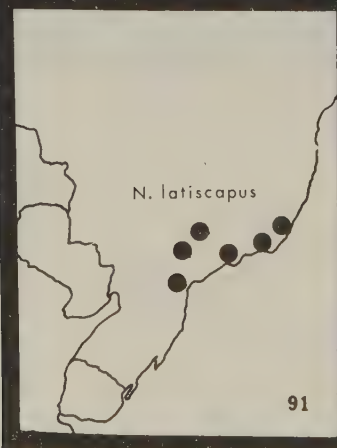
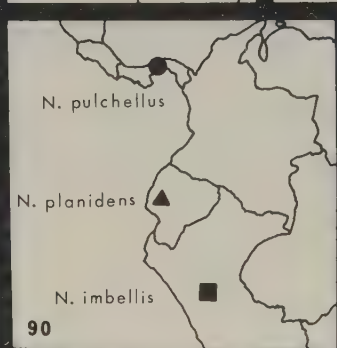
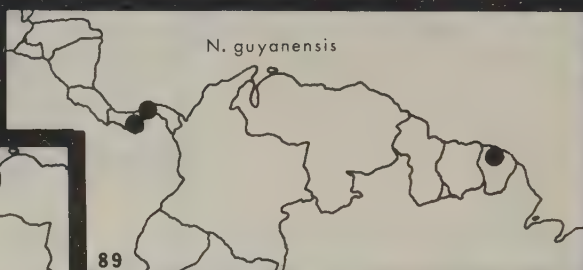
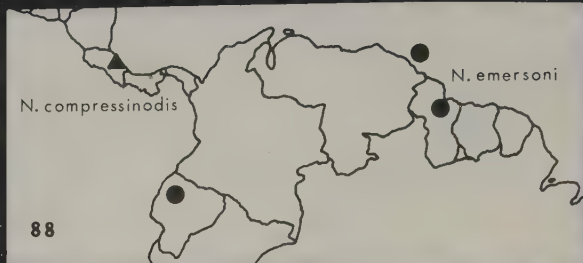
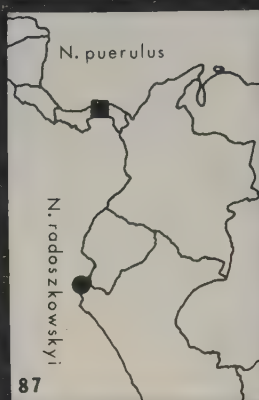
# MAPS 78-81



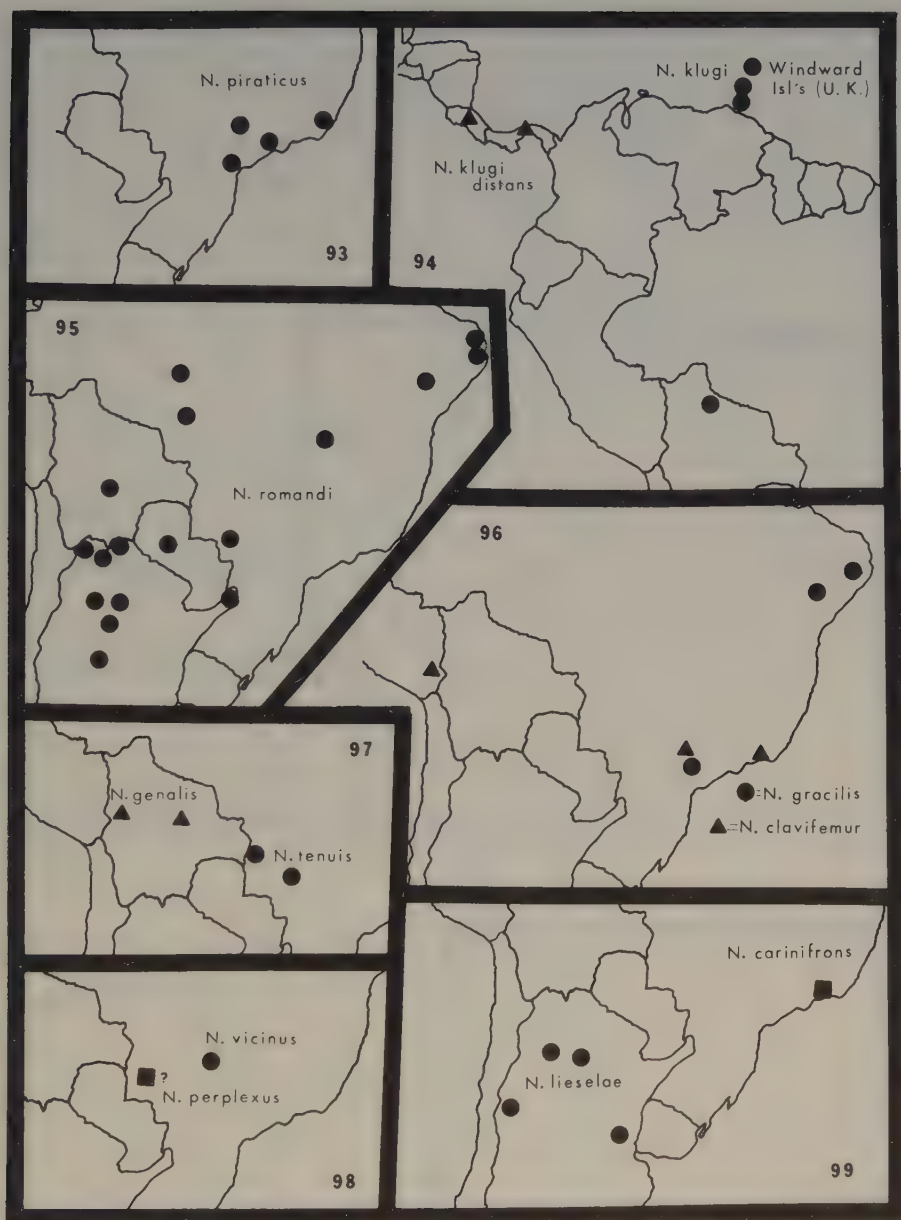
# MAPS 82-86



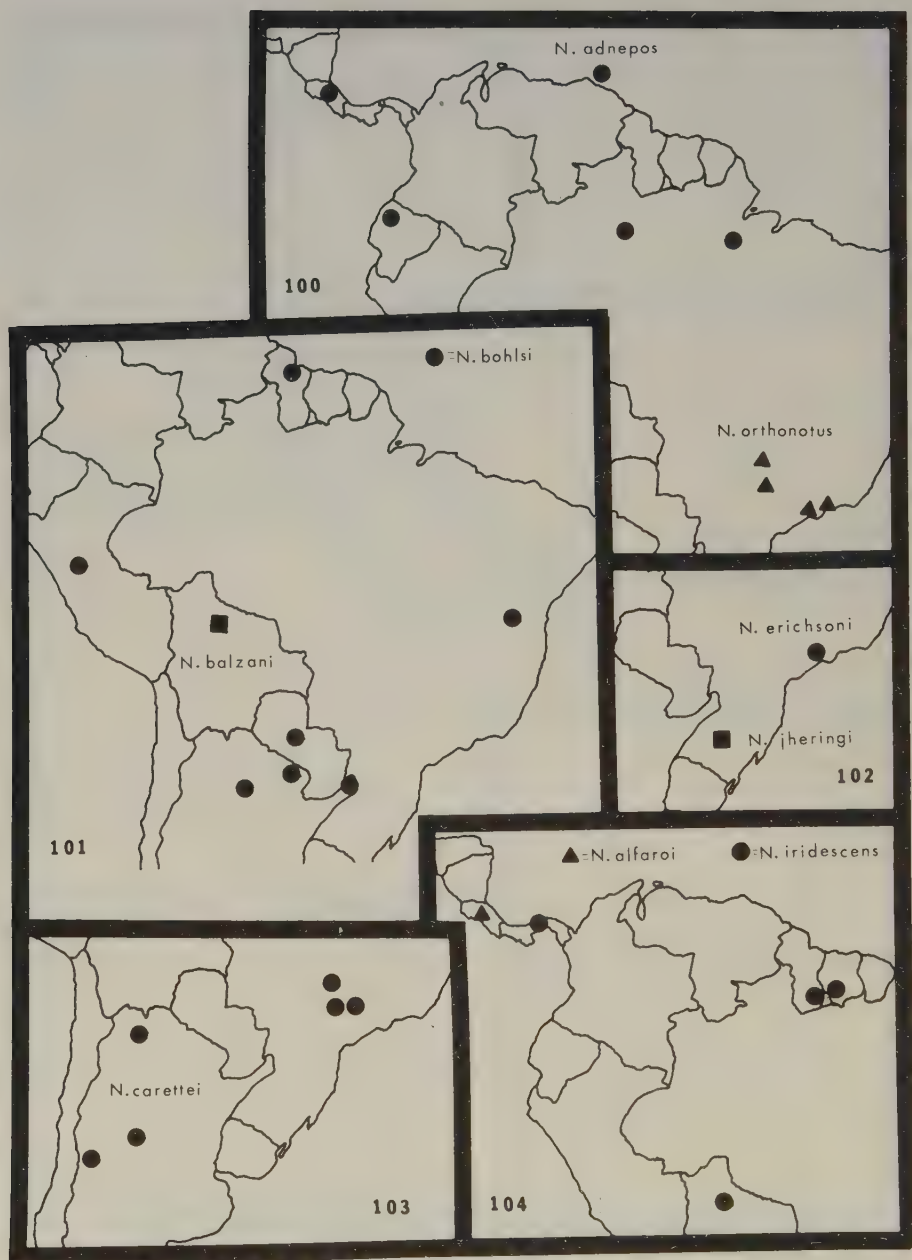
# MAPS 87-92



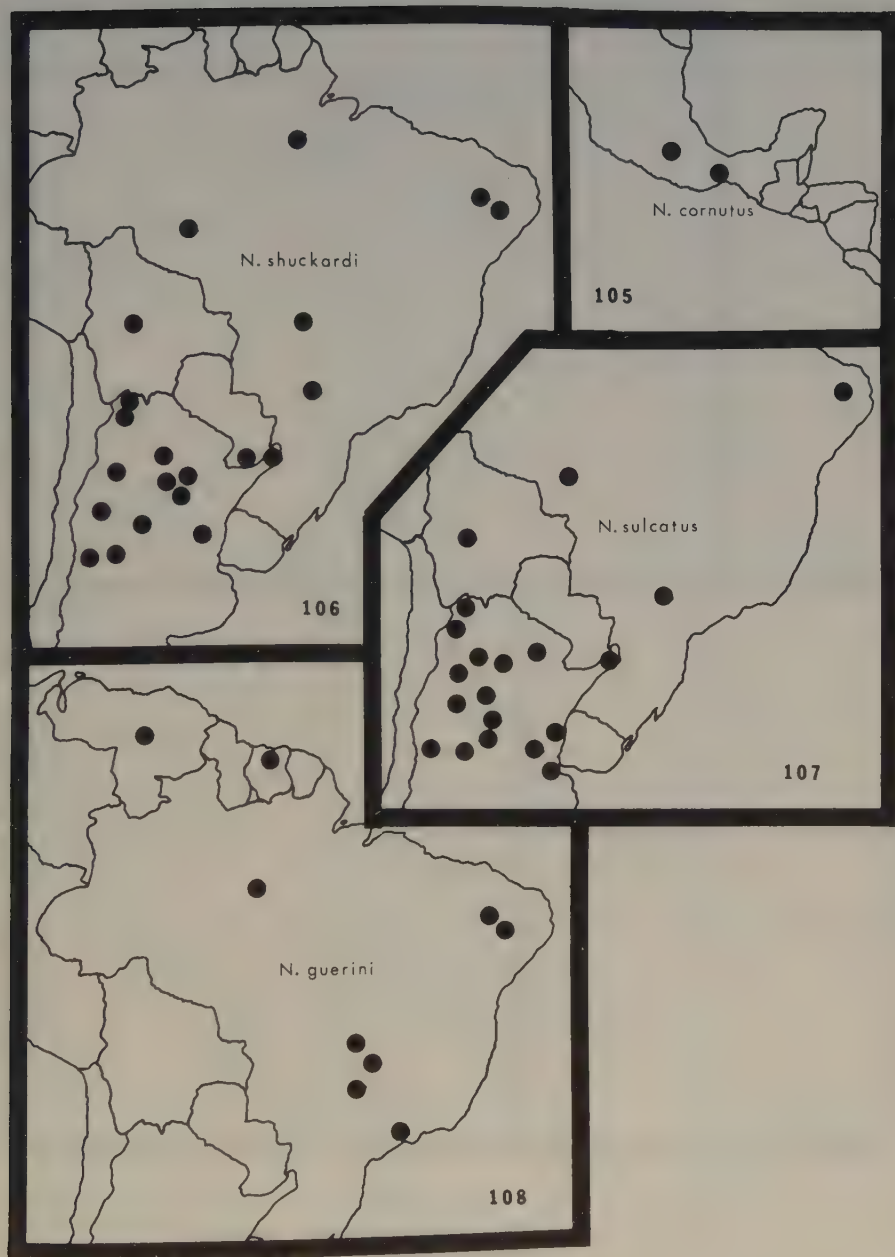
# MAPS 93-99



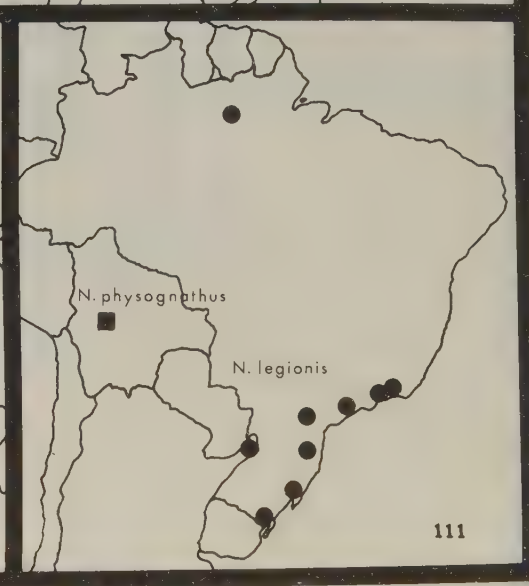
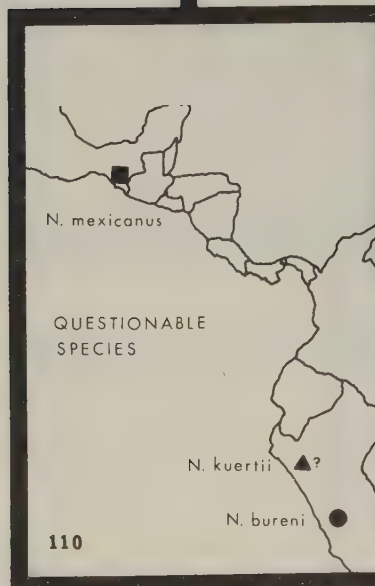
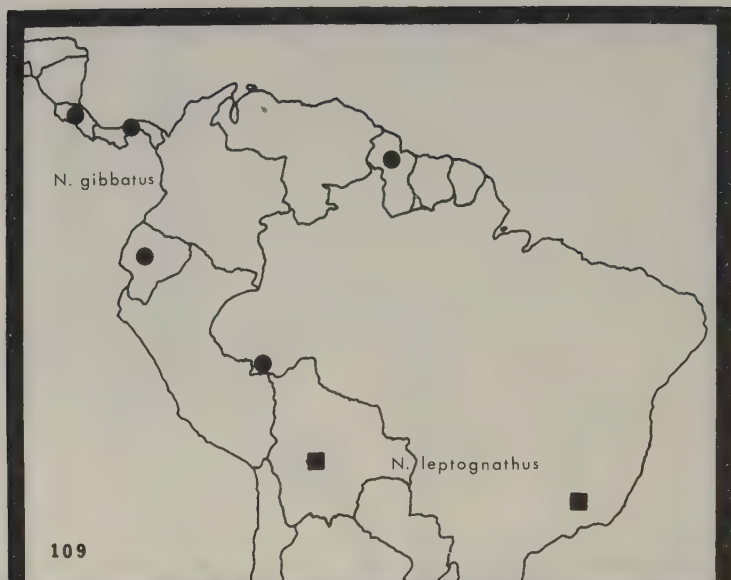
# MAPS 100-104



# MAPS 105-108



# MAPS 109-111



LIST (ALPHABETICAL) OF NEW WORLD DORYLINAE:  
GENUS: SPECIES: COUNTRY: STATE

<i>CHELIOMYRMEX</i>	Guanabara	Magdalena
<i>andicolus</i>	Minas Gerais	Costa Rica
Brazil	Para	Guanacaste
Acre	Pernambuco	Limon
Colombia	Rio de Janeiro	Ecuador
Antioquia	Santa Catarina	Guayas
Peru	Sao Paulo	Morona Santiago
Panamarca	Paraguay	Honduras
		Panama
<i>audax</i>	<i>burchelli cupiens</i>	Canal Zone
Bolivia	Bolivia	Darien
La Paz	Beni	Panama
Colombia	La Paz	Veraguas
Valle del Cauca	Pando	Venezuela
Ecuador	Santa Cruz	
	Brazil	<i>burchelli parvispinum</i>
<i>megalonyx</i>	Acre	British Honduras
Guyana (Br. Guiana)	Amazonas	Costa Rica
	Mato Grosso	Cartago
	Para	Limon
<i>morosus</i>	Pernambuco	Puntarenas
British Honduras	Rondonia	San Jose
Guatemala	Colombia	El Salvador
Honduras	Caqueta	Guatemala
Mexico	Cauca	Honduras
Chiapas	Cundinamarca	Mexico
San Luis Potosi	Guajira	Chiapas
Veracruz	Putumayo	Colima
	Valle de Cauca	Guerrero
<i>ursinus</i>	French Guiana	Jalisco
Brazil	Guyana (Br. Guiana)	Oaxaca
Ecuador	Peru	Puebla
Bolivar	Cuzco	Quintana Roo
	Huanuco	San Luis Potosi
<i>ECITON</i>	Junin	Tamaulipas
<i>burchelli s. str.</i>	Loreto	Veracruz
Brazil	Surninam (Du. Guiana)	Nicaragua
Amazonas	Venezuela	Panama
Bahia		Chiriqui
Distrito Federal	<i>burchelli foreli</i>	
Espirito Santo	Colombia	<i>burchelli urichi</i>

Trinidad	Brazil	Colombia
Venezuela	Amapa	Costa Rica
Aragua	Amazonas	Guanacaste
Trujillo	Mato Grosso	Limon
	Para	Ecuador
<i>drepanophorum</i>	Pernambuco	Nicaragua
Bolivia	Rondonia	Panama
Pando	British Honduras	Canal Zone
Santa Cruz	Colombia	Los Santos
Brazil	Magdalena	Panama
Amapa	Costa Rica	
Amazonas	Cartago	<i>lucanoides s.str.</i>
Para	Limon	Bolivia
Ecuador	Puntarenas	Pando
French Guiana	San Jose	Brazil
Peru	Ecuador	Acre
Cuzco	Guyas	Rondonia
Huanuco	Pastaza	Colombia
Loreto	French Guiana	Peru
	Guatemala	Junin
<i>dulcius s. str.</i>	Paten	
Argentina	Guyana (Br. Guiana)	<i>lucanoides conquistador</i>
Chaco	Honduras	Costa Rica
Cordoba	Mexico	Limon
Jujuy	Chiapas	Nicaragua
Misiones	Oaxaca	Panama
Salta	Veracruz	Canal Zone
Santa Fe	Nicaragua	Colon
Santiago del Estero	Panama	Panama
Tucuman	Canal Zone	
Brazil	Chiriqui	<i>mexicanum s. lat.</i>
Goias	Cocle	Argentina
Mato Grosso	Colon	Chaco
Sao Paulo	Darien	Bolivia
	Panama	Beni
<i>dulcius crassinode</i>	Peru	La Paz
Costa Rica	Ancash	Brazil
Limon	Huanuco	Amazonas
Panama	Junin	Bahia
Canal Zone	San Martin	Goias
	Surinam (Du. Guiana)	Minas Gerais
<i>hamatum</i>	Trinidad	Para
Bolivia	Venezuela	Pernambuco
Beni		Rondonia
La Paz	<i>jansoni</i>	Sao Paulo

British Honduras	Panama	Huanuco
Colombia	Canal Zone	Junin
Costa Rica	Colon	Loreto
Limon	Panama	San Martin
French Guiana		
Guatemala	<i>quadriglume</i>	<i>setigaster</i>
Mexico	Argentina	Bolivia
Chiapas	Misiones	Cochabamba
Veracruz	Bolivia	Brazil
Panama	Beni	Amapa
Canal Zone	Brazil	Amazonas
Colon	Amazonas	Peru
Panama	Bahia	Huanuco
Paraguay	Espirito Santo	
Peru	Guanabara	<i>uncinatum</i>
Surinam (Du. Guiana)	Maranhao	Ecuador
	Minas Gerais	Chimborazo
<i>mexicanum s. str.</i>	Para	Mexico
British Honduras	Parana	San Luis Potosi
Colombia	Rio de Janeiro	
Costa Rica	Rio Grande do Sul	<i>vagans s. str.</i>
Limon	Santa Catarina	Brazil
Guatemala	Sao Paulo	Amapa
Mexico	Paraguay	Amazonas
Chiapas	Peru	Para
Veracruz	Amazonas	Rondonia
<i>mexicanum argentinum</i>	Huanuco	French Guiana
Argentina	Junin	Guyana (Br. Guiana)
Chaco	<i>rapax</i>	Surinam (Du. Guiana)
<i>mexicanum goianum</i>	Bolivia	<i>vagans allognathum</i>
Brazil	Beni	Trinidad
Goias	Cochabamba	Venezuela
<i>mexicanum latidens</i>	La Paz	Carabobo
Brazil	Santa Cruz	Miranda
Para	Brazil	<i>vagans angustatum</i>
French Guiana	Amazonas	British Honduras
Surinam (Du. Guiana)	Mato Grosso	Costa Rica
	Para	Guanacaste
<i>mexicanum morulum</i>	Rondonia	Limon
French Guiana	Colombia	San Jose
	Putumayo	Guatemala
<i>mexicanum panamense</i>	Ecuador	Mexico
	Peru	Chiapas
	Cuzco	

Oaxaca  
Yucatan  
Nicaragua

*vagans dispar*

Brazil

Espirito Santo  
Guanabara  
Rio de Janeiro  
Sao Paulo

*vagans dubitatum*

Argentina

Chaco  
Misiones  
Santa Fe

Brazil

Goias  
Mato Grosso  
Minas Gerais  
Parana  
Rio de Janeiro  
Rio Grande do Sul  
Sao Paulo

Paraguay

*vagans fur*

Brazil

Bahia  
Paraiba  
Pernambuco  
Rio Grande do Norte  
Sergipe

*vagans mutatum*

Colombia

Costa Rica

Limon  
Puntarenas  
San Jose

Panama

Canal Zone

**LABIDUS**

*auropubens*

French Guiana

Peru

Huanuco

*coecus*

Argentina

Buenos Aires  
Chaco  
Corrientes  
Formosa  
Jujuy  
Misiones  
Santa Fe  
Santiago del Estero

Bolivia

Beni  
Ceara  
La Paz

Brazil

Acre  
Amapa  
Amazonas  
Bahia  
Ceara  
Distrito Federal  
Espirito Santo  
Goias  
Guanabara  
Mato Grosso  
Minas Gerais

Para

Paraiba

Parana

Pernambuco

Rio de Janeiro

Rio Grande do Norte

Rio Grande do Sul

Rondonia

Santa Catarina

Sao Paulo

British Honduras

Colombia

Costa Rica

Cartago

Limon

Puntarenas

San Jose

Ecuador

El Salvador

French Guiana

Guatemala

Guyana (Br. Guiana)

Honduras

Mexico

Chiapas  
Coahuila  
Distrito Federal  
Guerrero  
Hidalgo

Jalisco

Michoacan

Nayarit

Nuevo Leon

Oaxaca

San Luis Potosi

Sinaloa

Tamaulipas

Veracruz

Nicaragua

Panama

Canal Zone

Chiriqui

Los Santos

Panama

Paraguay

Peru

Cuzco

Huanuco

Madre de Dios

Surinam (Du. Guiana)

U.S.A.

Arkansas

Louisiana

Oklahoma

Texas

Venezuela

Federal District

Merida	Minas Gerais	Costa Rica
<i>curvipes</i>	Para	Cartago
Costa Rica	Paraiba	Limon
Ecuador	Parana	Puntarenas
	Pernambuco	San Jose
	Rio de Janeiro	Panama
<i>mars</i>	Rio Grande do Sul	Canal Zone
Brazil	Rondonia	Colon
Ceara	Santa Catarina	Venezuela
Goias	Sao Paulo	
Pernambuco	British Honduras	<i>spininodis</i>
Sao Paulo	Colombia	Brazil
Peru	Antioquia	Amazonas
	Costa Rica	Para
<i>nero s. str.</i>	Limon	Colombia
Brazil	Ecuador	Antioquia
Minas Gerais	Guatemala	Putumayo
Rio de Janeiro	Guyana (Br. Guiana)	Costa Rica
Sao Paulo	Honduras	Alajuela
	Mexico	Heredia
<i>nero denticulatus</i>	Chiapas	Puntarenas
Brazil	Guerrero	Peru
Para	Oaxaca	Surinam (Du. Guiana)
	San Luis Potosi	
<i>praedator s. str.</i>	Veracruz	<i>truncatidens</i>
Argentina	Nicaragua	Brazil
Chaco	Panama	Amapa
Corrientes	Canal Zone	Amazonas
Formosa	Chiriqui	French Guiana
Jujuy	Paraguay	Guyana (Br. Guiana)
La Rioja	Peru	
Misiones	Huanuco	
Santa Fe	Loreto	<i>NEIVAMYRMEX</i>
Bolivia	Pasco	<i>sp. a</i>
Beni	Venezuela	Costa Rica
La Paz		Panama
Brazil	<i>praedator sedulus</i>	
Amapa	Bolivia	<i>adnepos</i>
Amazonas	Beni	Brazil
Bahia	Cochabamba	Amazonas
Distrito Federal	Colombia	Para
Goias	Antioquia	Costa Rica
Guanabara	Cauca	Limon
Maranhao	Cundinamarca	San Jose
Mato Grosso	Magdalena	Ecuador

Trinidad	<i>sp. b</i>	Mendoza
<i>agilis</i>	Brazil	Salta
Mexico	Sao Paulo	Brazil
Chihuahua	<i>balzani</i>	Goias
Jalisco	Bolivia	Minas Gerais
U.S.A.	Beni	<i>carinifrons</i>
Arizona	<i>baylori</i>	Brazil
<i>alfaroi</i>	U.S.A.	Guanabara
Costa Rica	Texas	Rio de Janeiro
San Jose	<i>bohlsi</i>	<i>carolinensis</i>
<i>andrei</i>	Argentina	U.S.A.
Mexico	Formosa	Alabama
Colima	Misiones	Arizona
Nayarit	Santiago del Estero	Florida
Veracruz	Brazil	Georgia
U.S.A.	Minas Gerais	Kansas
Arizona	Guianas (Kempf, 1972)?	Louisiana
New Mexico	Paraguay	Mississippi
<i>angulimandibulatus</i>	Peru	Nebraska
Mexico	<i>bruchi</i>	New Mexico
Veracruz	Argentina	North Carolina
<i>angustinodis</i>	Buenos Aires	Ohio
Argentina	Catamarca	South Carolina
Misiones	Cordoba	Tennessee
Bolivia	Salta	Virginia
Brazil	San Luis	<i>clavifemur</i>
Rio Grande do Sul	Tucuman	Brazil
Guianas (Kempf, 1972)?	<i>bureni</i>	Guanabara
Paraguay	Peru	Rio de Janeiro
<i>antillanus</i>	Junin	Sao Paulo
Costa Rica	<i>californicus</i>	Peru
San Jose	U.S.A.	<i>cloosae</i>
West Indies	California	Mexico
Grenada	Nevada	Guerrero
<i>asper</i>	Utah	<i>compressinodis</i>
Costa Rica	<i>carettei</i>	Costa Rica
Limon	Argentina	Limon
	Cordoba	Peru
		<i>cornutus</i>

Mexico	<i>diversinodis</i>	Bolivia
Morelos	Argentina	Brazil
Oaxaca	Catamarca	Amapa
	Cordoba	Ecuador
<i>cratensis</i>	Salta	French Guiana
Brazil	Santa Fe	Peru
Ceara	Santiago del Estero	Surinam (Du. Guiana)
	Tucuman	
<i>cristatus</i>	Bolivia	<i>fallax</i>
Bolivia	Cochabamba	Guatemala
Beni	Brazil	Mexico
Brazil	Goiias	Michoacan
Rondonia	Paraguay	Tabasco
Ecuador		U.S.A.
Peru	<i>d'orbignyi</i>	Arizona
	Argentina	Kansas
<i>densepunctatus</i>	Buenos Aires	Louisiana
Brazil	Cordoba	New Mexico
Rio de Janeiro	Entre Rios	Texas
Sao Paulo	La Pampa	
	Brazil	<i>foveolatus</i>
<i>detectus</i>	Goiias	Panama
Brazil	Santa Catarina	Chiriqui
Rio de Janeiro	Rio Grande do Sul	
Sao Paulo	Uruguay	
	<i>emersoni</i>	<i>fumosus</i>
<i>diabolus</i>	Ecuador	Costa Rica
Mexico	Guyana (Br. Guiana)	Limon
Campeche	Trinidad	El Salvador
Veracruz		Guatemala
		Mexico
		Chiapas
<i>diana</i>	<i>emeryi</i>	
Brazil	Bolivia	<i>fuscipennis</i>
Goiias	Cochabamba	U.S.A.
Minas Gerais	Peru	Kansas
Para	Arequipa	Texas
Rondonia	Cuzco	
Sao Paulo	San Martin	<i>genalis</i>
Costa Rica		Bolivia
Limon	<i>erichsoni</i>	Cochabamba
Ecuador	Brazil	La Paz
	Guanabara	
<i>digitistipus</i>	Rio de Janeiro	<i>gibbatus</i>
Costa Rica		Brazil
Cartago	<i>falciferus</i>	Acre

Costa Rica	Bolivia	Jalisco
Limon	Beni	Nayarit
Ecuador	Cochabamba	Nuevo Leon
Guyana (Br. Guiana)	Brazil	San Luis Potosi
Panama	Amapa	Sinaloa
<i>goeldii</i>	Amazonas	Sonora
Argentina	Goiás	Tamaulipas
Chaco	Guanabara	Zacatecas
Brazil	Minas Gerais	U.S.A.
Bahia	Para	Arizona
Goiás	Parana	New Mexico
Sao Paulo	Rio de Janeiro	Oklahoma
	Santa Catarina	Texas
	Sao Paulo	
<i>graciellae</i>	Colombia	<i>betschkoi</i>
Mexico	Costa Rica	Argentina
Jalisco	Limon	Cordoba
	Ecuador	Misiones
<i>gracilis</i>	El Salvador	Santiago del Estero
Brazil	French Guiana	Brazil
Bahia	Guatemala	Parana
Paraiba	Guyana (Br. Guiana)	Rio Grande do Sul
Sao Paulo	Mexico	Sao Paulo
	Chiapas	Paraguay
<i>gradualis</i>	Colima	Uruguay
Bolivia	Oaxaca	
	Tabasco	
<i>guerini</i>	Veracruz	<i>hopei</i>
Brazil	Nicaragua	Argentina
Ceara	Panama	Cordoba
Goiás	Paraguay	Salta
Minas Gerais	Peru	Santiago del Estero
Para	Junin	Bolivia
Pernambuco	Madre de Dios	Santa Cruz
Sao Paulo	Surinam (Du. Guiana)	Brazil
Surinam (Du. Guiana)	Trinidad	Bahia
Venezuela	Venezuela	Ceara
		Goiás
<i>guyanensis</i>	<i>harrisi</i>	Mato Grosso
French Guiana	Mexico	Minas Gerais
Panama	Aguascalientes	Paraiba
	Chihuahua	Pernambuco
<i>halidayi</i>	Coahuila	Sao Paulo
Argentina	Colima	Paraguay
Misiones	Durango	
		<i>humilis</i>

Costa Rica	Brazil	Baja California
San Jose	Rio Grande do Sul	Tamaulipas
Panama		U.S.A.
<i>imbellis</i>	<i>klugi s. str.</i>	California
Peru	Bolivia	Texas
	Beni	Oklahoma
<i>impudens</i>	West Indies	
Costa Rica	Grenada	<i>leptognathus</i>
Limon	St. Vincent	Bolivia
Guatemala	Trinidad	Brazil
Honduras		Minas Gerais
Mexico	<i>klugi distans</i>	
Yucatan	Costa Rica	<i>lieselae</i>
	Limon	Argentina
<i>inca</i>	Panama	Catamarca
Peru		Mendoza
	<i>laevigatus</i>	Santa Fe
<i>iridescens</i>	Argentina	Santiago del Estero
Bolivia	Chaco	
Beni	Santiago del Estero	<i>longiscapus</i>
La Paz	Brazil	Costa Rica
Guyana (Br. Guiana)	Sao Paulo	Limon
Panama		Guatemala
Surinam (Du. Guiana)	<i>latiscapus</i>	Mexico
	Brazil	Tabasco
<i>jerrmanni</i>	Espirito Santo	Veracruz
Argentina	Guanabara	
Corrientes	Parana	<i>macrodentatus</i>
Santiago del Estero	Rio de Janeiro	Costa Rica
Bolivia	Sao Paulo	Alajuela
Santa Cruz		San Jose
Brazil	<i>legionis</i>	
Ceara	Argentina	<i>macropterus</i>
Espirito Santo	Misiones	Mexico
Goias	Brazil	Chihuahua
Minas Gerais	Guanabara	Durango
Para	Para	Oaxaca
Paraiba	Parana	Puebla
Rio de Janeiro	Rio de Janeiro	U.S.A.
Sao Paulo	Rio Grande do Sul	Arizona
Paraguay	Santa Catarina	New Mexico
Uruguay	Sao Paulo	Texas
<i>jberingi</i>	<i>leonardi</i>	<i>manni</i>
	Mexico	Mexico

Hidalgo	Santa Catarina	Kentucky
<i>maxillosus</i>	Sao Paulo	Louisiana
Brazil	<i>minor</i>	Mississippi
Amazonas	Mexico	Missouri
Guyana (Br. Guiana)	Baja California	Nebraska
<i>melanocephalus</i>	Coahuila	New Mexico
Guatemala	U.S.A.	Oklahoma
Honduras	Arizona	Tennessee
Mexico	California	Texas
Hidalgo	Kansas	West Virginia
Jalisco	Nevada	<i>nordenskioldi</i>
Michoacan	New Mexico	Bolivia
Nayarit	Oklahoma	La Paz
U.S.A.	Texas	Peru
Arizona	<i>modestus</i>	Puno
<i>melsheimeri</i>	Brazil	<i>opacithorax</i>
Costa Rica	Rio de Janeiro	Costa Rica
El Salvador	Sao Paulo	San Jose
Guatemala	<i>mojave</i>	Mexico
Mexico	U.S.A.	Baja California
Tamaulipas	California	Jalisco
Veracruz	<i>moseri</i>	U.S.A.
Yucatan	U.S.A.	Alabama
U.S.A.	Louisiana	Arizona
Louisiana	Texas	Arkansas
Oklahoma	<i>nigrescens</i>	California
Texas	Mexico	Florida
<i>micans</i>	Nayarit	Georgia
Brazil	Oaxaca	Iowa
Goiás	Sonora	Kansas
Mato Grosso	U.S.A.	Mississippi
<i>microps</i>	Alabama	Missouri
U.S.A.	Arizona	New Mexico
Arizona	Arkansas	North Carolina
<i>minensis</i>	California	Oklahoma
Brazil	Colorado	South Carolina
Goiás	Georgia	Tennessee
Minas Gerais	Illinois	Texas
Pernambuco	Iowa	Virginia
	Kansas	<i>orthonotus</i>
		Brazil
		Goiás

Guanabara	Pernambuco	Costa Rica
Minas Gerais	Rio Grande del Norte	Cartago
Rio de Janeiro	Sao Paulo	Limon
Sao Paulo	Paraguay	San Jose
<i>pacificus</i>	Uruguay	El Salvador
Peru	Cuchilla de Haedo	Guatemala
La Libertad	<i>physognathus</i>	Mexico
<i>pauxillus</i>	Bolivia	Chiapas
Mexico	<i>pilosus s. str.</i>	Coahuila
Hidalgo	Argentina	Colima
U.S.A.	Jujuy	Michoacan
Texas	Salta	San Luis Potosi
<i>perplexus</i>	Brazil	Tabasco
Brazil	Amazonas	Veracruz
Mato Grosso	Bahia	Panama
<i>pertyi</i>	Espirito Santo	Canal Zone
Argentina	Goiás	U.S.A.
Buenos Aires	Guanabara	Arkansas
Catamarca	Mato Grosso	California
Chaco	Minas Gerais	Louisiana
Chubut	Para	Mississippi
Cordoba	Paraiba	Oklahoma
Entre Rios	Parana	Texas
Formosa	Pernambuco	<i>pilosus subsp.</i>
Jujuy	Rio de Janeiro	Bolivia
La Rioja	Rio Grande do Sul	Beni
Mendoza	Sao Paulo	Peru
Misiones	Paraguay	Madre de Dios
Rio Negro	Peru	<i>piraticus</i>
Salta	<i>pilosus beebei</i>	Brazil
San Luis	Guyana (Br. Guiana)	Espirito Santo
Santa Fe	Surinam (Du. Guiana)	Parana
Santiago del Estero	Trinidad	Sao Paulo
Tucuman	Venezuela	<i>planidens</i>
Bolivia	<i>pilosus mandibularis</i>	Ecuador
Cochabamba	U.S.A.	<i>planidorsus</i>
Brazil	Arizona	Argentina
Bahia	New Mexico	Buenos Aires
Ceara	<i>pilosus mexicanus</i>	Brazil
Minas Gerais	Colombia	Para
Paraiba		Paraguay

*postangustatus*

Bolivia

Beni

Brazil

Goiás

Guyana (Br. Guiana)

Surinam (Du. Guiana)

*postcarinatus*

Panama

Canal Zone

*pseudops*

Argentina

Cordoba

Jujuy

Salta

Santa Fe

Tucuman

Bolivia

Beni

Cochabamba

Brazil

Espirito Santo

Goiás

Mato Grosso

Minas Gerais

Pernambuco

Sao Paulo

Panama

Paraguay

*puerulus*

Panama

Panama

*pulchellus*

Panama

Canal Zone

*pullus*

Nicaragua

Panama

Canal Zone

*quadratoocciputus*

El Salvador

*radoszkowskyi*

Peru

Tumbes "

*raptans*

Argentina

Catamarca

Cordoba

Jujuy

La Rioja

Misiones

Salta

Santa Fe

Santiago del Estero

Tucuman

Brazil

Sao Paulo

*romandi*

Argentina

Cordoba

Jujuy

Misiones

Salta

Santiago del Estero

Tucuman

Bolivia

Santa Cruz

Brazil

Goiás

Mato Grosso

Pernambuco

Rio Grande do Norte

Paraguay

*rosenbergi*

Ecuador

Guatemala

Panama

Canal Zone

*rugulosus*

Mexico

Jalisco

Nayarit

Sonora

U.S.A.

Arizona

*scutellaris*

Panama

Canal Zone

*shuckardi*

Argentina

Catamarca

Chaco

Cordoba

Entre Rios

Jujuy

La Rioja

Mendoza

Misiones

San Luis

Santa Fe

Santiago del Estero

Bolivia

Cochabamba

Brazil

Ceara

Goiás

Mato Grosso

Paraiba

Paraguay

*spatulatus*

Costa Rica

Limon

Panama

Chiriqui

*spinolai*

Argentina

Catamarca

Chaco

Corrientes

Cordoba	<i>sulcatus</i>	Brazil
Entre Rios	Argentina	Bahia
Formosa	Buenos Aires	Goias
La Rioja	Catamarca	Mato Grosso
Santa Fe	Chaco	Minas Gerais
Tucuman	Cordoba	Para
Bolivia	Entre Rios	Parana
Beni	Jujuy	Rio de Janeiro
Cochabamba	La Rioja	Costa Rica
Brazil	Mendoza	San Jose
Distrito Federal	Misiones	Guatemala
Espirito Santo	Salta	Honduras
Goias	San Luis	Mexico
Guanabara	Santa Fe	Chiapas
Mato Grosso	Santiago del Estero	Chihuahua
Minas Gerais	Tucuman	Coahuila
Rio de Janeiro	Bolivia	Durango
Rio Grande do Sul	Cochabamba	Jalisco
Santa Catarina	Brazil	Michoacan
Sao Paulo	Mato Grosso	Oaxaca
Colombia	Paraiba	San Luis Potosi
Cundinamarca	Sao Paulo	Veracruz
Costa Rica	<i>sumichrasti</i>	Yucatan
San Jose	Costa Rica	Nicaragua
Honduras	Puntarenas	Panama
Mexico	Guatemala	Canal Zone
Veracruz	Mexico	Panama
Paraguay	Chiapas	Paraguay
Surinam (Du. Guiana)	Hidalgo	Trinidad
Trinidad	Morelos	U.S.A.
<i>spoliator</i>	Veracruz	Arizona
Costa Rica	Nicaragua	California
Guanacaste	<i>swainsoni</i>	Louisiana
Limon	Argentina	New Mexico
San Jose	Catamarca	Texas
El Salvador	Jujuy	Venezuela
Guatemala	La Pampa	Distrito Federal
Honduras	La Rioja	<i>tenuis</i>
Mexico	Mendoza	Brazil
Chiapas	San Luis	Mato Grosso
Veracruz	Santa Fe	<i>texanus</i>
Panama	Santiago del Estero	Mexico
Canal Zone	Tucuman	Hidalgo
Panama		

Jalisco  
 San Luis Potosi  
 U.S.A.  
 Arizona  
 Colorado  
 Florida  
 Georgia  
 New Mexico  
 North Carolina  
 South Carolina  
 Texas  
 Virginia

*tristis*

British Honduras  
 Guatemala  
 Mexico  
 Chiapas  
 San Luis Potosi  
 Veracruz

*vicinus*

Brazil  
 Goias

*walkeri*

Argentina  
 Salta  
 Bolivia  
 Beni  
 Cochabamba  
 Santa Cruz  
 Brazil  
 Amapa  
 Goias  
 Para  
 French Guiana  
 Peru

**NOMAMYRMEX**

*esenbecki s. str.*

Argentina  
 Formosa  
 Misiones  
 Brazil  
 Amazonas

Bahia  
 Ceara  
 Distrito Federal  
 Espirito Santo  
 Goias  
 Guanabara  
 Mato Grosso  
 Minas Gerais  
 Para  
 Paraiba  
 Parana  
 Pernambuco  
 Rio de Janeiro  
 Rio Grande do Norte  
 Sao Paulo  
 French Guiana  
 Paraguay

*esenbecki crassicornis*

Bolivia  
 Amazonas  
 Beni  
 La Paz  
 Brazil  
 Acre  
 Amazonas  
 Para  
 Rondonia  
 Colombia  
 Panama  
 Canal Zone  
 Chiriqui  
 Peru  
 Amazonas  
 Madre de Dios  
 Trinidad  
 Venezuela

*esenbecki n. subsp.*

Mexico  
 Durango  
 Jalisco  
 Michoacan  
 Nayarit  
 Sinaloa  
 Sonora

*esenbecki wilsoni*  
 British Honduras  
 Costa Rica  
 Limon  
 Puntarenas  
 Guatemala  
 Honduras  
 Mexico  
 Chiapas  
 Distrito Federal  
 Morelos  
 Oaxaca  
 San Luis Potosi  
 Tamaulipas  
 Veracruz  
 Yucatan  
 U.S.A.  
 Texas

*hartigi*

Brazil  
 Amapa  
 Amazonas  
 Distrito Federal  
 Espirito Santo  
 Goias  
 Guanabara  
 Mato Grosso  
 Minas Gerais  
 Para  
 Parana  
 Rio de Janeiro  
 Santa Catarina  
 Sao Paulo  
 El Salvador  
 Mexico  
 Distrito Federal  
 Panama  
 Canal Zone  
 Colon  
 Paraguay  
 Sta. Trinidad  
 Peru  
 Huanuco  
 Surinam (Du. Guiana)  
 Venezuela

LIST (ALPHABETICAL) OF NEW WORLD DORYLINAE:  
COUNTRY: GENUS: SPECIES

ARGENTINA

*Eciton*

*dulcius* s. str.  
*mexicanum* s. lat.  
*mexicanum argentinum*  
*quadriglume*  
*vagens dubitatum*

*Labidus*

*coecus*  
*praedator* s. str.

*Neivamyrmex*

*angustinodis*  
*boblsi*  
*bruchii*  
*carettei*  
*diversinodis*  
*d'orbignyi*  
*goeldii*  
*halidayi*  
*hetschkoi*  
*hopei*  
*jerrmanni*  
*laevigatus*  
*legionis*  
*lieselae*  
*pertyi*  
*pilosus* s. str.  
*planidorsus*  
*pseudops*  
*raptans*  
*romandi*  
*shuckardi*  
*spinolai*  
*sulcatus*  
*swainsoni*  
*walkeri*

*Nomamyrmex*

*esenbecki* s. str.

BOLIVIA

*Cheliomyrmex*

*audax*

*Eciton*

*burchelli cupiens*  
*drepanophorum*  
*hamatum*  
*lucanoides* s. str.  
*mexicanum* s. lat.  
*quadriglume*  
*rapax*  
*setigaster*

*Labidus*

*coecus*  
*praedator* s. str.  
*praedator sedulus*

*Neivamyrmex*

*angustinodis*  
*balzani*  
*cristatus*  
*diversinodis*  
*emeryi*  
*falciferus*  
*genalis*  
*gradualis*  
*halidayi*  
*hopei*  
*iridescent*  
*jerrmanni*  
*klugi* s. str.  
*leptognathus*  
*nordenskiöldi*  
*pertyi*  
*physognathus*  
*pilosus* subsp.  
*postangustatus*  
*pseudops*  
*romandi*  
*shuckardi*  
*spinolai*  
*sulcatus*  
*walkeri*

*Nomamyrmex*

*esenbecki crassicornis*

BRAZIL

*Cheliomyrmex*

*andicolus*  
*ursinus*

*Eciton*

*burchelli* s. str.  
*burchelli cupiens*  
*drepanophorum*  
*dulcius* s. str.  
*hamatum*  
*lucanoides* s. str.  
*mexicanum* s. lat.  
*mexicanum* s. str.  
*mexicanum goianum*  
*mexicanum latidens*  
*quadriglume*  
*rapax*  
*setigaster*  
*vagens* s. str.  
*vagens dispar*  
*vagens dubitatum*  
*vagens fur*

*Labidus*

*coecus*  
*mars*  
*nero* s. str.  
*nero denticulatus*  
*praedator* s. str.  
*spininodis*  
*truncatidens*

*Neivamyrmex*

*adnepos*  
*angustinodis*  
*sp. b*  
*boblsi*  
*carettei*  
*carinifrons*  
*clavifemur*  
*cratensis*  
*cristatus*  
*densipunctatus*  
*detectus*

*diana*  
*diversinodis*  
*d'orbigny*  
*erichsoni*  
*falciferus*  
*gibbatus*  
*goeldii*  
*gracilis*  
*guerini*  
*halidayi*  
*hetschkoi*  
*hopei*  
*jerrmanni*  
*jheringi*  
*laevigatus*  
*laticaput*  
*legionis*  
*leptognathus*  
*maxillosus*  
*micans*  
*minensis*  
*modestus*  
*orthonotus*  
*perplexus*  
*pertyi*  
*pilosus s. str.*  
*piraticus*  
*planidorsus*  
*postangustatus*  
*pseudops*  
*raptans*  
*romandi*  
*shuckardi*  
*spinolai*  
*sulcatus*  
*swainsoni*  
*tenuis*  
*vicinus*  
*walkeri*  
*Nomamyrmex*  
*esenbecki s. str.*  
*esenbecki crassicornis*  
*hartigi*

BRITISH HONDURAS  
*Cheliomyrmex*

*morosus*  
*Eciton*  
*burchelli parvispinum*  
*hamatum*  
*mexicanum s. lat.*  
*mexicanum s. str.*  
*vagans s. str.*  
*vagans angustatum*  
*Labidus*  
*coecus*  
*praedator s. str.*  
*Neivamyrmex*  
*tristis*  
*Nomamyrmex*  
*esenbecki wilsoni*

# COLOMBIA

*Cheliomyrmex*  
*andicolus*  
*audax*  
*Eciton*  
*burchelli cupiens*  
*burchelli foreli*  
*hamatum*  
*jansonii*  
*lucanoides s. str.*  
*mexicanum s. lat.*  
*mexicanum s. str.*  
*rapax*  
*vagans mutatum*  
*Labidus*  
*coecus*  
*praedator s. str.*  
*praedator sedulus*  
*spininodis*  
*Neivamyrmex*  
*halidayi*  
*pilosus mexicanus*  
*spinolai*

*Nomamyrmex*  
*esenbecki crassicornis*

# COSTA RICA

*Eciton*  
*burchelli foreli*

*burchelli parvispinum*  
*dulcius crassinode*  
*hamatum*  
*jansonii*  
*lucanoides conquistador*  
*mexicanum s. lat.*  
*mexicanum s. str.*  
*vagans s. str.*  
*vagans angustatum*  
*vagans mutatum*

*Labidus*  
*coecus*  
*curvipes*  
*praedator s. str.*  
*praedator sedulus*  
*spininodis*

*Neivamyrmex*  
*sp. a*  
*adnepos*  
*alfaroi*  
*antillanus*  
*asper*  
*compressinodis*  
*diana*  
*digitistipus*  
*fumosus*  
*gibbatus*  
*halidayi*  
*humilis*  
*impudens*  
*klugi distans*  
*longiscapus*  
*macrodentatus*  
*melsheimeri*  
*opacithorax*  
*spatulatus*  
*spinolai*  
*spoliator*  
*sumichrasti*  
*swainsoni*  
*Nomamyrmex*  
*esenbecki wilsoni*

ECUADOR  
*Cheliomyrmex*

*audax*  
*ursinus*  
**Eciton**  
*burchelli foreli*  
*drepanophorum*  
*hamatum*  
*jansoni*  
*rapax*  
*uncinatum*

**Labidus**  
*coecus*  
*curvipes*  
*praedator s. str.*

**Neivamyrmex**  
*adnepos*  
*cristatus*  
*diana*  
*emersoni*  
*falciferus*  
*gibbatus*  
*halidayi*  
*planidens*  
*rosenbergi*

## EL SALVADOR

**Eciton**  
*burchelli parvispinum*

**Labidus**  
*coecus*

**Neivamyrmex**  
*fumosus*  
*halidayi*  
*melsheimeri*  
*pilosus mexicanus*  
*quadratooccipitus*  
*spoliator*

**Nomamyrmex**  
*hartigi*

## FRENCH GUIANA

**Eciton**  
*burchelli cupiens*  
*drepanophorum*  
*hamatum*

*mexicanum s. lat.*  
*mexicanum latidens*  
*mexicanum morulum*  
*vagans s. str.*

**Labidus**  
*auropubens*  
*coecus*  
*truncatidens*

**Neivamyrmex**  
*falciferus*  
*guyanensis*  
*halidayi*  
*walkeri*

**Nomamyrmex**  
*esenbecki s. str.*

## GUATEMALA

**Cheliomyrmex**  
*morosus*

**Eciton**  
*burchelli parvispinum*  
*hamatum*  
*mexicanum s. lat.*  
*mexicanum s. str.*  
*vagans s. str.*  
*vagans angustatum*

**Labidus**  
*coecus*  
*praedator s. str.*

**Neivamyrmex**  
*fallax*  
*fumosus*  
*halidayi*  
*impudens*  
*longiscapus*  
*melanocephalus*  
*melsheimeri*  
*pilosus mexicanus*  
*rosenbergi*  
*spoliator*  
*sumichrasti*  
*swainsoni*  
*tristis*

**Nomamyrmex**  
*esenbecki wilsoni*

## GUYANA (BR. GUIANA)

**Cheliomyrmex**  
*audax*  
*megalonyx*

**Eciton**  
*burchelli cupiens*  
*hamatum*  
*vagans s. str.*

**Labidus**  
*coecus*  
*truncatidens*  
*praedator s. str.*

**Neivamyrmex**  
*emersoni*  
*gibbatus*  
*halidayi*  
*iridescent*  
*maxillosus*  
*pilosus beebei*

## HONDURAS

**Cheliomyrmex**  
*morosus*  
**Eciton**  
*burchelli foreli*  
*burchelli parvispinum*  
*hamatum*

**Labidus**  
*coecus*  
*praedator s. str.*

**Neivamyrmex**  
*impudens*  
*melanocephalus*  
*spinolai*  
*spoliator*  
*swainsoni*

**Nomamyrmex**  
*esenbecki wilsoni*

## MEXICO

**Cheliomyrmex**  
*morosus*

**Eciton**  
*burchelli parvispinum*  
*hamatum*

*mexicanum* s. lat.  
*mexicanum* s. str.  
*uncinatum*  
*vagens* s. str.  
*vagens angustatum*

*Labidus*  
*coecus*  
*praedator* s. str.

*Neivamyrmex*  
*agilis*  
*andrei*  
*angulimandibulatus*  
*cloosae*  
*cornutus*  
*diabolus*  
*fallax*  
*fumosus*  
*graciellae*  
*halidayi*  
*harrisi*  
*impudens*  
*leonardi*  
*longiscapus*  
*macropterus*  
*manni*  
*melanocephalus*  
*melsheimeri*  
*minor*  
*nigrescens*  
*opacithorax*  
*pauxillus*  
*pilosus* s. str.  
*pilosus mexicanus*  
*rugulosus*  
*spinolai*  
*spoliator*  
*sumichrasti*  
*swainsoni*  
*texanus*  
*tristis*

*Nomamyrmex*  
*esenbecki* n. subsp.  
*esenbecki wilsoni*  
*hartigi*

## NICARAGUA

*Eciton*  
*burchelli parvispinum*  
*hamatum*  
*jansoni*  
*lucanoides conquistador*  
*vagens angustatum*

*Labidus*  
*coecus*  
*praedator* s. str.

*Neivamyrmex*  
*halidayi*  
*pullus*  
*sumichrasti*  
*swainsoni*

## PANAMA

*Eciton*  
*burchelli foreli*  
*burchelli parvispinum*  
*dulcius crassinode*  
*hamatum*  
*jansoni*  
*lucanoides conquistador*  
*mexicanum* s. lat.  
*mexicanum panamense*  
*vagens mutatum*

*Labidus*  
*coecus*  
*praedator* s. str.  
*praedator sedulus*

*Neivamyrmex*  
*sp. a*  
*foveolatus*  
*gibbatus*  
*guyanensis*  
*halidayi*  
*humilis*  
*iridescens*  
*klugi distans*  
*pilosus* s. str.  
*pilosus mexicanus*  
*postcarinatus*  
*pseudops*  
*puerulus*

*pulchellus*  
*pullus*  
*rosenbergi*  
*scutellaris*  
*spatulatus*  
*spoliator*  
*swainsoni*  
*Nomamyrmex*  
*esenbecki crassicornis*  
*hartigi*

## PARAGUAY

*Eciton*  
*burchelli* s. str.  
*mexicanum* s. lat.  
*quadriglume*  
*vagens dubitatum*

*Labidus*  
*coecus*  
*praedator* s. str.

*Neivamyrmex*  
*angustinodis*  
*bohlsi*  
*diversinodis*  
*halidayi*  
*hetschkoi*  
*hopei*  
*jerrmanni*  
*pertyi*  
*pilosus* s. str.  
*planidorsus*  
*pseudops*  
*romandi*  
*shuckardi*  
*spinolai*  
*swainsoni*  
*Nomamyrmex*  
*esenbecki* s. str.  
*hartigi*

## PERU

*Cheliomyrmex*  
*andicolus*  
*Eciton*  
*burchelli cupiens*

<i>drepanophorum</i>	<i>Neivamyrmex</i>	<i>minor</i>
<i>hamatum</i>	<i>falciferus</i>	<i>mojave</i>
<i>lucanoides</i> s. str.	<i>guerini</i>	<i>moseri</i>
<i>mexicanum</i> s. lat.	<i>halidayi</i>	<i>nigrescens</i>
<i>quadriglume</i>	<i>iridescens</i>	<i>opacithorax</i>
<i>rapax</i>	<i>pilosus beebei</i>	<i>pauxillus</i>
<i>setigaster</i>	<i>spinolai</i>	<i>pilosus mandibularis</i>
<i>Labidus</i>	<i>Nomamyrmex</i>	<i>pilosus mexicanus</i>
<i>europubens</i>	<i>hartigi</i>	<i>rugulosus</i>
<i>coecus</i>		<i>swainsoni</i>
<i>mars</i>		<i>texanus</i>
<i>praedator</i> s. str.		<i>Nomamyrmex</i>
<i>spininodis</i>		<i>esenbecki wilsoni</i>
<i>Neivamyrmex</i>		
<i>bohlsi</i>	<b>TRINIDAD</b>	
<i>bureni</i>	<i>Eciton</i>	
<i>clavifemur</i>	<i>burchelli urichi</i>	
<i>compressinodis</i>	<i>hamatum</i>	
<i>cristatus</i>	<i>vagans allognathum</i>	<b>URUGUAY</b>
<i>emeryi</i>	<i>Neivamyrmex</i>	<i>Neivamyrmex</i>
<i>falciferus</i>	<i>adnepos</i>	<i>d'orbignyi</i>
<i>halidayi</i>	<i>emersoni</i>	<i>hetschkoi</i>
<i>imbellis</i>	<i>halidayi</i>	<i>jerrmanni</i>
<i>inca</i>	<i>klugi</i> s. str.	<i>pertyi</i>
<i>klugi distans</i>	<i>pilosus beebei</i>	
<i>nordenskiöldi</i>	<i>spinolai</i>	
<i>pacificus</i>	<i>swainsoni</i>	
<i>pilosus</i> s. str.	<i>Nomamyrmex</i>	<b>VENEZUELA</b>
<i>pilosus subsp.</i>	<i>esenbecki crassicornis</i>	<i>Eciton</i>
<i>radoszkowskyi</i>	<i>hartigi</i>	<i>burchelli cupiens</i>
<i>walkeri</i>		<i>burchelli foreli</i>
<i>Nomamyrmex</i>		<i>burchelli urichi</i>
<i>hartigi</i>		<i>hamatum</i>
		<i>vagans allognathum</i>
	<b>U.S.A.</b>	<i>Labidus</i>
	<i>Labidus</i>	<i>coecus</i>
	<i>coecus</i>	<i>praedator</i> s. str.
	<i>Neivamyrmex</i>	<i>praedator sedulus</i>
	<i>agilis</i>	<i>Neivamyrmex</i>
	<i>andrei</i>	<i>guerini</i>
	<i>baylori</i>	<i>halidayi</i>
	<i>californicus</i>	<i>pilosus beebei</i>
	<i>carolinensis</i>	<i>swainsoni</i>
	<i>fallax</i>	<i>Nomamyrmex</i>
	<i>fuscipennis</i>	<i>esenbecki crassicornis</i>
	<i>harrisi</i>	<i>hartigi</i>
	<i>leonardi</i>	
	<i>macropterus</i>	<b>WEST INDIES</b>
	<i>melanocephalus</i>	<i>Neivamyrmex</i>
	<i>melsheimeri</i>	<i>antillanus</i>
	<i>microps</i>	<i>klugi</i> s. str.
<b>SURINAM</b>		
<b>(DUTCH GUIANA)</b>		
<i>Eciton</i>		
<i>burchelli cupiens</i>		
<i>hamatum</i>		
<i>mexicanum latidens</i>		
<i>vagans</i> s. str.		
<i>Labidus</i>		
<i>coecus</i>		
<i>spininodis</i>		

LIST (ALPHABETICAL) OF NEW WORLD DORYLINAE:  
BRAZIL, MEXICO, U.S.A.: STATE: GENUS: SPECIES

**BRAZIL**

**ACRE**

*Cheliomyrmex*  
*andicolus*

*Eciton*  
*burchelli cupiens*  
*lucanoides s. str.*

*Labidus*  
*coecus*

*Neivamyrmex*  
*gibbatus*

*Nomamyrmex*  
*esenbecki crassicornis*

**AMAPA**

*Eciton*  
*drepanophorum*  
*hamatum*  
*setigaster*  
*vagens s. str.*

*Labidus*  
*coecus*  
*praedator s. str.*  
*truncatidens*

*Neivamyrmex*  
*falciferus*  
*halidayi*  
*walkeri*

*Nomamyrmex*  
*hartigi*

**AMAZONAS**

*Eciton*  
*burchelli s. str.*  
*burchelli cupiens*  
*drepanophorum*  
*esenbecki s. str.*  
*hamatum*  
*mexicanum s. lat.*  
*quadriglume*  
*rapax*

*setigaster*  
*vagens s. str.*  
*Labidus*  
*coecus*  
*praedator s. str.*  
*spininodis*  
*truncatidens*

*Neivamyrmex*  
*adnepos*  
*halidayi*  
*maxillosus*  
*pilosus s. str.*

*Nomamyrmex*  
*esenbecki crassicornis*  
*hartigi*

**BAHIA**

*Eciton*  
*burchelli s. str.*  
*mexicanum s. lat.*  
*quadriglume*  
*vagens fur*

*Labidus*  
*coecus*  
*praedator s. str.*

*Neivamyrmex*  
*goeldii*  
*gracilis*  
*hopei*  
*pertyi*  
*pilosus s. str.*  
*swainsoni*

*Nomamyrmex*  
*esenbecki s. str.*

**CEARA**

*Labidus*  
*coecus*  
*mars*  
*Neivamyrmex*  
*cratensis*

*guerini*  
*hopei*  
*jerrmanni*  
*pertyi*  
*shuckardi*  
*Nomamyrmex*  
*esenbecki s. str.*

**DISTRITO FEDERAL**

*Eciton*  
*burchelli s. str.*  
*Labidus*  
*coecus*  
*praedator s. str.*  
*Neivamyrmex*  
*spinolai*  
*Nomamyrmex*  
*esenbecki s. str.*  
*hartigi*

**ESPIRITO SANTO**

*Eciton*  
*burchelli s. str.*  
*quadriglume*  
*vagens dispar*  
*Labidus*  
*coecus*  
*Neivamyrmex*  
*jerrmanni*  
*laticapus*  
*pilosus s. str.*  
*piraticus*  
*pseudops*  
*spinolai*  
*Nomamyrmex*  
*esenbecki s. str.*  
*hartigi*

**GOIAS**

*Eciton*  
*dulcius s. str.*

*mexicanum* s. lat.  
*mexicanum goianum*  
*vagans dubitatum*

*Labidus*

*coecus*  
*mars*  
*praedator* s. str.

*Neivamyrmex*

*carettei*  
*diana*  
*diversinodis*  
*d'orbignyi*  
*goeldii*  
*guerini*  
*halidayi*  
*hopei*  
*jerrmanni*  
*micans*  
*minensis*  
*orthonotus*  
*pilosus* s. str.  
*postangustatus*  
*pseudops*  
*romandi*  
*shuckardi*  
*spinolai*  
*swainsoni*  
*vicinus*  
*walkeri*

*Nomamyrmex*

*esenbecki* s. str.  
*hartigi*

GUANABARA

*Eciton*

*burchelli* s. str.  
*quadriglume*  
*vagans dispar*

*Labidus*

*coecus*  
*praedator* s. str.

*Neivamyrmex*

*carinifrons*  
*clavifemur*  
*erichsoni*

*halidayi*  
*latiscapus*  
*legionis*  
*orthonotus*  
*pilosus* s. str.  
*spinolai*

*Nomamyrmex*

*esenbecki* s. str.  
*hartigi*

MARANHAO

*Eciton*

*quadriglume*

*Labidus*

*praedator* s. str.

MATO GROSSO

*Eciton*

*burchelli cupiens*  
*dulcius* s. str.  
*hamatum*  
*rapax*  
*vagans dubitatum*

*Labidus*

*coecus*  
*praedator* s. str.

*Neivamyrmex*

*hopei*  
*micans*  
*perplexus*  
*pilosus* s. str.  
*pseudops*  
*romandi*  
*shuckardi*  
*spinolai*  
*sulcatus*  
*swainsoni*  
*tenuis*

*Nomamyrmex*

*esenbecki* s. str.  
*hartigi*

MINAS GERAIS

*Eciton*

*burchelli* s. str.

*mexicanum* s. lat.  
*quadriglume*  
*vagans dubitatum*

*Labidus*

*coecus*  
*nero* s. str.  
*praedator* s. str.

*Neivamyrmex*

*boblsi*  
*carettei*  
*diana*  
*guerini*  
*halidayi*  
*hopei*  
*jerrmanni*  
*leptognathus*  
*minensis*  
*orthonotus*  
*pertyi*  
*pilosus* s. str.  
*pseudops*  
*spinolai*  
*swainsoni*

*Nomamyrmex*

*esenbecki* s. str.  
*hartigi*

PARA

*Eciton*

*burchelli* s. str.  
*burchelli cupiens*  
*burchelli foreli*  
*drepanophorum*  
*hamatum*  
*mexicanum* s. lat.  
*mexicanum latidens*  
*quadriglume*  
*rapax*  
*vagans* s. str.

*Labidus*

*coecus*  
*nero denticulatus*  
*praedator* s. str.  
*spininodis*

*Neivamyrmex*

*adnepos*  
*diana*  
*guerini*  
*halidayi*  
*jerrmanni*  
*legionis*  
*pilosus s. str.*  
*planidorsus*  
*swainsoni*  
*walkeri*  
*Nomamyrmex*  
*esenbecki s. str.*  
*esenbecki crassicornis*  
*hartigi*

## PARAIBA

*Eciton*  
*vagans fur*  
*Labidus*  
*coecus*  
*praedator s. str.*  
*Neivamyrmex*  
*gracilis*  
*hopei*  
*jerrmanni*  
*pertyi*  
*pilosus s. str.*  
*shuckardi*  
*sulcatus*  
*Nomamyrmex*  
*esenbecki s. str.*

## PARANA

*Eciton*  
*quadriglume*  
*vagans dubitatum*  
*Labidus*  
*coecus*  
*praedator s. str.*  
*Neivamyrmex*  
*halidayi*  
*hetschkoi*  
*latiscapus*  
*legionis*  
*pilosus s. str.*

*piraticus*  
*swainsoni*  
*Nomamyrmex*  
*esenbecki s. str.*  
*hartigi*

## PERNAMBUCO

*Eciton*  
*burchelli s. str.*  
*burchelli cupiens*  
*hamatum*  
*mexicanum s. lat.*  
*vagans fur*

## Labidus

*coecus*  
*mars*  
*praedator s. str.*

## Neivamyrmex

*guerini*  
*hopei*  
*minensis*  
*pertyi*  
*pilosus s. str.*  
*pseudops*  
*romandi*

*Nomamyrmex*  
*esenbecki s. str.*

## RIO DE JANEIRO

*Eciton*  
*burchelli s. str.*  
*quadriglume*  
*vagans dispar*  
*vagans dubitatum*

## Labidus

*coecus*  
*nero s. str.*  
*praedator s. str.*

*Neivamyrmex*  
*carinifrons*  
*clavifemur*  
*densepunctatus*  
*detectus*  
*erichsoni*  
*halidayi*

*jerrmanni*  
*latiscapus*  
*legionis*  
*modestus*  
*orthonotus*  
*pertyi*  
*pilosus s. str.*  
*spinolai*  
*swainsoni*  
*Nomamyrmex*  
*esenbecki s. str.*  
*hartigi*

## RIO GRANDE DO NORTE

*Eciton*  
*vagans fur*  
*Labidus*  
*coecus*  
*Neivamyrmex*  
*pertyi*  
*romandi*  
*Nomamyrmex*  
*esenbecki s. str.*

## RIO GRANDE DO SUL

*Eciton*  
*quadriglume*  
*vagans dubitatum*  
*Labidus*  
*coecus*  
*praedator s. str.*  
*Neivamyrmex*  
*angustinodis*  
*d'orbignyi*  
*hetschkoi*  
*jberingi*  
*legionis*  
*pilosus s. str.*  
*spinolai*

## RONDONIA

*Eciton*  
*burchelli cupiens*  
*hamatum*  
*lucanoides s. str.*

*mexicanum* s. lat.  
*rapax*  
*vagans* s. str.  
*Labidus*  
*coecus*  
*praedator* s. str.  
*Neivamyrmex*  
*cristatus*  
*diana*  
*Nomamyrmex*  
*esenbecki crassicornis*

## SANTA CATARINA

*Eciton*  
*burchelli* s. str.  
*quadriglume*  
*Labidus*  
*coecus*  
*praedator* s. str.  
*Neivamyrmex*  
*d'orbignyi*  
*halidayi*  
*legionis*  
*minensis*  
*spinolai*  
*Nomamyrmex*  
*hartigi*

## SAO PAULO

*Eciton*  
*burchelli* s. str.  
*dulcius* s. str.  
*mexicanum* s. lat.  
*quadriglume*  
*vagans dispar*  
*vagans dubitatum*  
*Labidus*  
*coecus*  
*mars*  
*nero* s. str.  
*praedator* s. str.  
*Neivamyrmex*  
*sp. b.*  
*clavifemur*  
*densepunctatus*

*detectus*  
*diana*  
*goeldii*  
*gracilis*  
*guerini*  
*halidayi*  
*betschkoi*  
*hopei*  
*jerrmanni*  
*latiscapus*  
*legionis*  
*minensis*  
*modestus*  
*orthonotus*  
*pertyi*  
*pilosus* s. str.  
*piraticus*  
*pseudops*  
*raptans*  
*spinolai*  
*sulcatus*  
*Nomamyrmex*  
*esenbecki* s. str.  
*hartigi*

## SERGIPE

*Eciton*  
*vagans fur*

**MEXICO**  
**AGUASCALIENTES**  
*Neivamyrmex*  
*harrisi*

**BAJA CALIFORNIA**  
*Neivamyrmex*  
*leonardi*  
*minor*  
*opacithorax*

**CAMPECHE**  
*Neivamyrmex*  
*diabolus*

**CHIAPAS**  
*Cheliomyrmex*  
*morosus*  
*Eciton*  
*burchelli parvispinum*  
*hamatum*  
*mexicanum* s. lat.  
*mexicanum* s. str.  
*vagans angustatum*

*Labidus*  
*coecus*  
*praedator* s. str.  
*Neivamyrmex*  
*fumosus*  
*halidayi*  
*pilosus mexicanus*  
*spoliator*  
*sumichrasti*  
*swainsoni*  
*tristis*  
*Nomamyrmex*  
*esenbecki wilsoni*

**CHIHUAHUA**  
*Neivamyrmex*  
*agilis*  
*harrisi*  
*macropterus*  
*swainsoni*

## COAHUILA

### *Labidus*

*coecus*

### *Neivamyrmex*

*barrisi*

*minor*

*pilosus mexicanus*

*swainsoni*

### *Neivamyrmex*

*manni*

*melanocephalus*

*pauxillus*

*sumichrasti*

*texanus*

### *Neivamyrmex*

*andrei*

*barrisi*

*melanocephalus*

*minor*

*rugulosus*

### *Nomamyrmex*

*esenbecki* n. subsp.

## COLIMA

### *Eciton*

*burchelli parvispinum*

### *Neivamyrmex*

*andrei*

*halidayi*

*barrisi*

*pilosus mexicanus*

## JALISCO

### *Eciton*

*burchelli parvispinum*

### *Labidus*

*coecus*

### *Neivamyrmex*

*agilis*

*graciellae*

*barrisi*

*melanocephalus*

*opacithorax*

*rugulosus*

*swainsoni*

*texanus*

### *Nomamyrmex*

*esenbecki* n. subsp.

## NUEVO LEON

### *Labidus*

*coecus*

### *Neivamyrmex*

*barrisi*

## OAXACA

### *Eciton*

*burchelli parvispinum*

*hamatum*

*vagans angustatum*

### *Labidus*

*coecus*

*praedator* s. str.

### *Neivamyrmex*

*cornutus*

*halidayi*

*macropterus*

*nigrescens*

*swainsoni*

### *Nomamyrmex*

*esenbecki wilsoni*

## DISTRITO FEDERAL

### *Labidus*

*coecus*

### *Nomamyrmex*

*esenbecki wilsoni*

*hartigi*

## MICHOACAN

### *Labidus*

*coecus*

### *Neivamyrmex*

*fallax*

*melanocephalus*

*pilosus mexicanus*

*swainsoni*

### *Nomamyrmex*

*esenbecki* n. subsp.

## DURANGO

### *Neivamyrmex*

*barrisi*

*macropterus*

*swainsoni*

### *Nomamyrmex*

*esenbecki* n. subsp.

## GUERRERO

### *Eciton*

*burchelli parvispinum*

### *Labidus*

*coecus*

*praedator* s. str.

### *Neivamyrmex*

*cloosae*

## MORELOS

### *Neivamyrmex*

*cornutus*

*sumichrasti*

### *Nomamyrmex*

*esenbecki wilsoni*

## PUEBLA

### *Eciton*

*burchelli parvispinum*

### *Neivamyrmex*

*macropterus*

## QUINTANA ROO

### *Eciton*

*burchelli parvispinum*

## HIDALGO

### *Labidus*

*coecus*

## NAYARIT

### *Labidus*

*coecus*

## SAN LUIS POTOSI

### *Cheliomyrmex*

*morosus*

*Eciton*  
*burchelli parvispinum*  
*uncinatum*

*Labidus*  
*coecus*  
*praedator* s. str.

*Neivamyrmex*  
*harrisi*  
*pilosus mexicanus*  
*swainsoni*  
*texanus*  
*tristis*

*Nomamyrmex*  
*esenbecki wilsoni*

## SINALOA

*Labidus*  
*coecus*

*Neivamyrmex*  
*harrisi*

*Nomamyrmex*  
*esenbecki* n. subsp.

## SONORA

*Neivamyrmex*  
*harrisi*  
*minor*  
*rugulosus*

*Nomamyrmex*  
*esenbecki* n. subsp.

## TABASCO

*Neivamyrmex*  
*fallax*  
*halidayi*  
*longiscapus*  
*pilosus mexicanus*

## TAMAULIPAS

*Eciton*  
*burchelli parvispinum*

*Labidus*  
*coecus*

*Neivamyrmex*  
*harrisi*

*leonardi*  
*melsheimeri*  
*Nomamyrmex*  
*esenbecki wilsoni*

## VERACRUZ

*Cheliomyrmex*  
*morosus*

*Eciton*  
*burchelli parvispinum*  
*hamatum*  
*mexicanum* s. str.

*Labidus*  
*coecus*

*Neivamyrmex*  
*andrei*  
*angulimandibulatus*  
*diabolus*  
*halidayi*  
*longiscapus*  
*melsheimeri*  
*pilosus mexicanus*  
*spinolai*  
*spoliator*  
*sumichrasti*  
*swainsoni*  
*tristis*

*Nomamyrmex*  
*esenbecki wilsoni*

## YUCATAN

*Eciton*  
*vagans angustatum*

*Neivamyrmex*  
*melsheimeri*  
*swainsoni*  
*impudens*

*Nomamyrmex*  
*esenbecki wilsoni*

## ZACATECAS

*Neivamyrmex*  
*harrisi*

## U.S.A.

### ALABAMA

*Neivamyrmex*  
*carolinensis*  
*nigrescens*  
*opacithorax*

### ARIZONA

*Neivamyrmex*  
*agilis*  
*andrei*  
*carolinensis*  
*fallax*  
*harrisi*  
*macropterus*  
*melanocephalus*  
*microps*  
*minor*  
*nigrescens*  
*opacithorax*  
*pilosus mandibularis*  
*rugulosus*  
*swainsoni*  
*texanus*

### ARKANSAS

*Labidus*  
*coecus*  
*Neivamyrmex*  
*nigrescens*  
*opacithorax*  
*pilosus mexicanus*

### CALIFORNIA

*Neivamyrmex*  
*californicus*  
*leonardi*  
*minor*  
*mojave*  
*nigrescens*  
*opacithorax*  
*pilosus mexicanus*  
*swainsoni*

**COLORADO**

*Neivamyrmex*  
*nigrescens*  
*texanus*

**FLORIDA**

*Neivamyrmex*  
*carolinensis*  
*opacithorax*  
*texanus*

**GEORGIA**

*Neivamyrmex*  
*carolinensis*  
*nigrescens*  
*opacithorax*  
*texanus*

**ILLINOIS**

*Neivamyrmex*  
*nigrescens*

**IOWA**

*Neivamyrmex*  
*nigrescens*  
*opacithorax*

**KANSAS**

*Neivamyrmex*  
*carolinensis*  
*fallax*  
*fuscipennis*  
*minor*  
*nigrescens*  
*opacithorax*

**KENTUCKY**

*Neivamyrmex*  
*nigrescens*

**LOUISIANA**

*Labidus*  
*coecus*  
*Neivamyrmex*  
*carolinensis*

*fallax*  
*melsheimeri*  
*moseri*  
*nigrescens*  
*pilosus mexicanus*  
*swainsoni*

**MISSISSIPPI**

*Neivamyrmex*  
*carolinensis*  
*nigrescens*  
*opacithorax*  
*pilosus mexicanus*

**MISSOURI**

*Neivamyrmex*  
*nigrescens*  
*opacithorax*

**NEBRASKA**

*Neivamyrmex*  
*carolinensis*  
*nigrescens*

**NEVADA**

*Neivamyrmex*  
*californicus*  
*minor*

**NEW MEXICO**

*Neivamyrmex*  
*andrei*  
*carolinensis*  
*fallax*  
*harrisi*  
*macropterus*  
*minor*  
*nigrescens*  
*opacithorax*  
*pilosus mandibularis*  
*swainsoni*  
*texanus*

**NORTH CAROLINA**

*Neivamyrmex*

*carolinensis*  
*opacithorax*  
*texanus*

**OHIO**

*Neivamyrmex*  
*carolinensis*

**OKLAHOMA**

*Labidus*  
*coecus*  
*Neivamyrmex*  
*harrisi*  
*leonardi*  
*melsheimeri*  
*minor*  
*nigrescens*  
*opacithorax*  
*pilosus mexicanus*

**SOUTH CAROLINA**

*Neivamyrmex*  
*carolinensis*  
*opacithorax*  
*texanus*

**TENNESSEE**

*Neivamyrmex*  
*carolinensis*  
*nigrescens*  
*opacithorax*

**TEXAS**

*Labidus*  
*coecus*  
*Neivamyrmex*  
*baylori*  
*fallax*  
*fuscipennis*  
*harrisi*  
*leonardi*  
*macropterus*  
*melsheimeri*  
*minor*  
*moseri*

*nigrescens*  
*opacithorax*  
*pauillus*  
*pilosus mexicanus*  
*swainsoni*  
*texanus*  
*Nomamyrmex*  
*esenbecki wilsoni*

UTAH  
*Neivamyrmex*  
*californicus*

VIRGINIA  
*Neivamyrmex*  
*carolinensis*  
*opacithorax*

*texanus*

WEST VIRGINIA  
*Neivamyrmex*  
*nigrescens*

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